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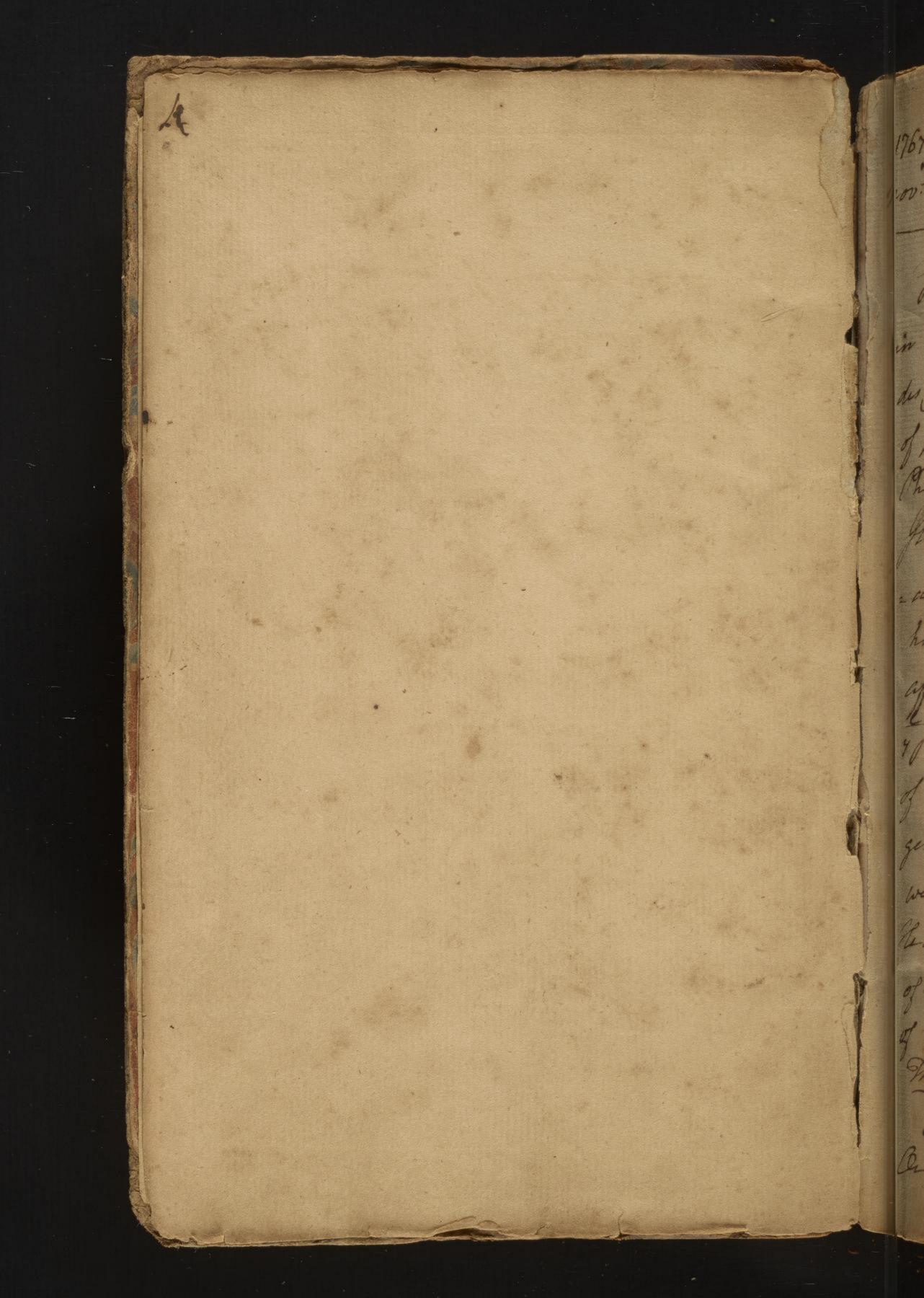
RIDGWAY BRANCH.

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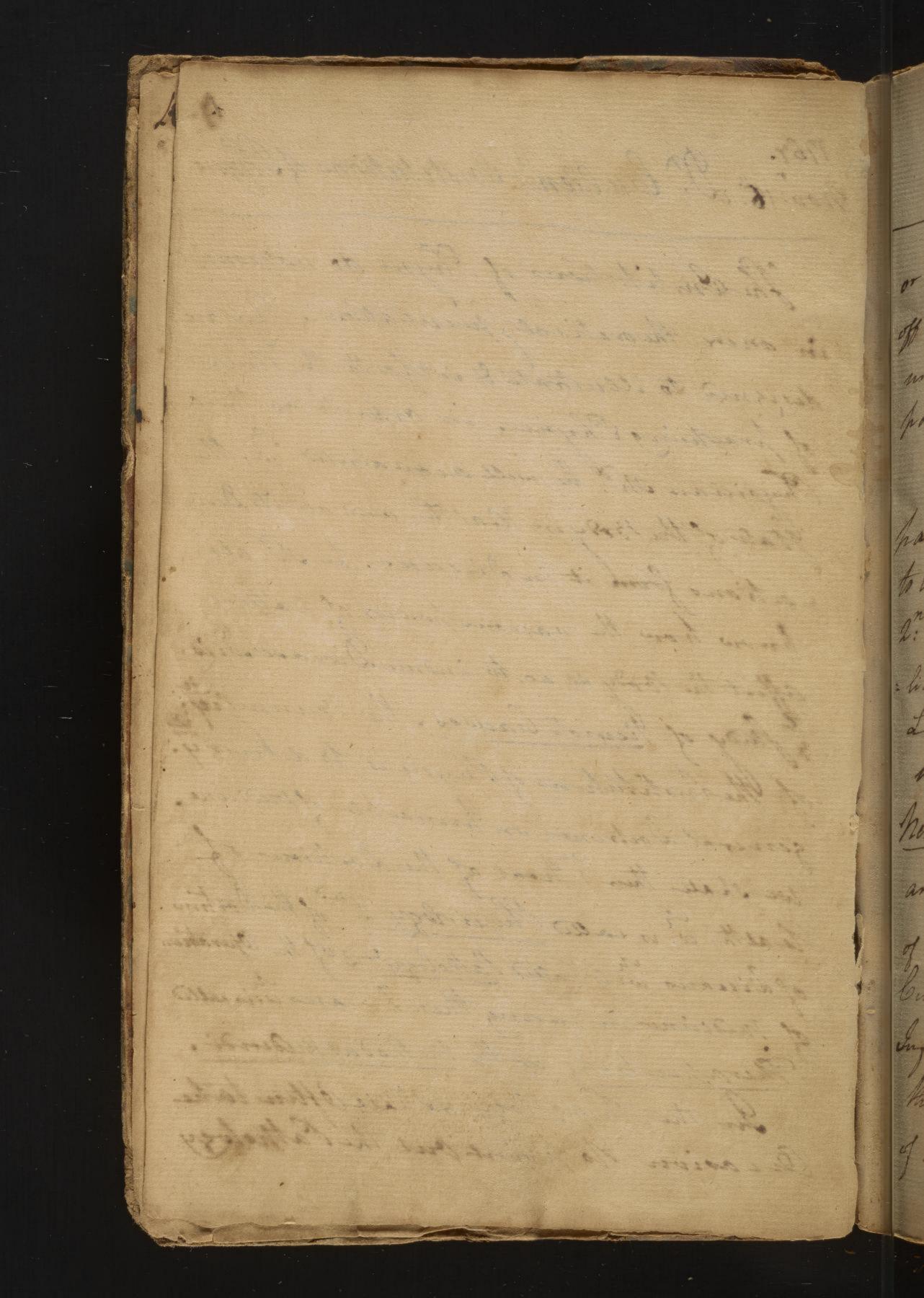
COMMUNITER BONA PROFUNDERE DEORUM EST.

Lectures Institutes of Physic Win Pullen m.D Profesor of maine in the University of Edinburgh. " Physic, & Physic , Low lay hid in hight " God Jaid - let bullen he, Hall was hight. Jancon-1931年11

Wortten ley Buyanin Charle



nov: 18: D. Cullen's Institutions of Physic. The amtitutions of Physic do not consist in more theoretical piculations. They are designed to illustrate & set forth the Rules of practing Physic. in order to do this a Physician on? be well acquainted is: the Hate of the Bry in Health, and all its Devi-= actions from it in Diseaseo. he sh? also know how the various powers of hatune affect the Body so no to induce Disease wie y they of Remote Causes. The Businging of the institutions of Physic is to delivery: general d'octrines or principles of medicine. we shall then I heat of the Doctions of Lealth wi is called Thyriology 2: of the Doctions of Diseases wi is called Pathology & 3 of the Operation of medicines in curing then Diseases wiis called Therapentichs, or the Methodus maindi. In the Chypiology, Lohale Oftin take One asion to point out the lathology



. What Garage the state of 10 the state of the s The state of the s Lyo Land of the formand that we will be to be Lui The state of the s w Th A William Market Bridge un who The same of the sa 0 And the state of t and & n the same of the sa an

Introduction!

I shall call this the Hydraulic part ofour Lubject to y common Lows of Hydrauliches. we shall then explain in w manner 4 I hive are constantly renewed. This will constitutes the 3: hast of the Physiology which we shall call the Chemical part of om Lys tern. this you may neadily see includes thou Functions war called bital & natural. Ofter this we about Subjoins an auount of the Lunctions y are heculiar to each of the Senes. Before d'enter whom the Difugion ofy: hervous Lystem I shall day a few things concerning the hatun of a limpledible fatintele Lolis. I shall divide Atris partintel Mears 10% of their difficult Fromo

I shall wall the the it you and is and it on in and the second of the second o (C) a diede" that especially is the source of dElist an exactly harriday. The will and the first the state of the thought of the 40 of the fire that each the standard for the is our wife there is the series are made in the tall indicate their formation of the catego what eucn and the state of the state of the second and the an and the Secretary of the Secretary hn court of the cours. with water of the test of the state of the

of the Simple Johns. 161 of the more general Lunations of 9 Simple Solids (e) I shall consider the difficunt (c) states ros Folids of w: affect them. (d) of the Patho Copy of the simple Lolids (a) of the diffirms Forms of the dolids you all know from anatomy, y:it is a Cellular Festine. you will find inde Kaller very fully diffushed. we never find oven two Fri bus applied together wont the deterhontiones cellerlar Inletanne. Come an atomist, suppose the whole Body to be cellulan more la vely or clouly compacted together. The membranes are hotting but a clon compact cellerlar Lubstance. The Bones themselves were originally mens : branous therefore we may pressure they are hihe wise alkalan o does this apply to is Mails - Horns - Hoofedes of amineles?

of the day lite with. the of the more ground of ware being the handle shed to the test of the shear the shear A. the file has explicitly and in the second Sup all of the translation of the same file in the ito at of the different of the deline wh you all have place and the will ind in Culler Libert word with first first rt ? Ealler very files diffusper. - it is Pris Gil once his Filter about the son System on time of eather than the ship was . I want an the se would shared in the second of the sec - ev Whis In, we infer this from the simple & Distinct Insations w: are communicated by every single here to the Brain.

of the Simple Solis. - This I think very doubtful but it does not relate to our present purpose, even supposing parts of the body to be gibrous it does not affect the Sexture in the least. when we come to enamin them we hall Jind them both the Same. See Dr Haller de Fibre et Tela bellulusa in the Byinning of his Prime Linie. We allow the Fristence of Fibres in the muscles and Tendono, but they are always distingtown the Cellular Inletanu. - even the mont ! hart of the Brain appears to be awanged in a fil rous manner, and When we considery the herves are conti? from the medulla me may presume the herves also have a fibrous lin anyment. Theirally wheneve and to this, that the hours I the weare sure are fibrows. Hulphi-cation of this will appear more fully

of the observed chila. and the state of t fine and the second s hart Jea about the second of the second free the state of the state of the state of ALL CONTRACTOR OF THE PROPERTY OF THE PARTY and the state of the same of t Inu it if he state the state of the state of the And the second of the second of the second of Although the second sec the state of the fact of the state of the same was the standard of the standa the same of the same a cation of the " the applican more fully

of the Simple Solids. hart of the Body is derived from the places. I cannot help thinking y: the Fribrows Itrutureis the wort Briginal, and y: The Cellular fulestamarises from it. I mention this breause a late ingenuous Lenneh win ter One millsoundeauer, who has wrote on the cellular Listure of animals in w: he tills his he has demonstrated Libres in w: has buen Supposed to be cellular. he Observes that there Fribres are found in all ancinals . hence the powers wiproduce Them are always uniform & the same, all Changes in the Lolids them are in y Celeulan Feeture, & not in the simple Libres. this Ayportion in ingenerous, but cannot be supported. This Notions of Fibres are taken out from Imuscles, & and his Observations

of the client this they hart of the thorn we consider the thing the servery meny of w/m meyes the two is the series Collinson find of marine plans it. fun comi a meertien the hecause a strangement lust 1 Lemmely from the Box Brown to week to with in winter our the contraction of humanite 161. in within the fact for him demonstration of the in is her thing the from the the Body in Absorber that there are you da.

of the Timple folis. were made w: mirroreopes w: wehnow one very fallacions. a later author tras hain. tained the same aprinion, but I think is: welf Jumps than the Delhourdeaux. we must consider museles not as Simple Fiches lust an Ongomined Bodies as we shall show hereaften. 16/ The Functions of the foliss. folisits was necessary to give Firmness to the Prody wir always expone to Injunies & accident, as also to Serve as agents in promoting the Circulation of youthirds. It was necessary the folias the have a certain Degree of Coherion - L'heribits & Hastreity which we Observe in them. all the folis in our body are proposed of One of these three properties or of all of them as was necessary for their

of the winder file. here made as to his description of the stand of the Fins many fallowiness. a state saille has no tool of the course discourse the title of the title of the boh freeeft than the Between the see miles the ! consider much with a desirable hills 35 white was not conflict the same of the conflict hate Their perception. Diff the the same time of the state of the of their way and harden war to M Dr. 1911 or that they were Heterogeneous are c Liggregates. in the Same mannen as Limes mostar which is fand comented But together by Lime.

of the limple Tolis. 19 the different thates w. affect the Cohenon Flixibility Planticity of " Thin Cohesiondepents whom thin patinias mist borrios y is whom y Diffirence of matter w. constitute the folds, united more or less compactly awding to the matter which they are composed. D'Boerhaan Supposed y'all the falis, are composed of Larth & Glutin !a! But this they infer from Calcinations & from a Gluten es is estracted from ? Bones by Tapin, Digeston. to the 1: big Calcination we Object all that lan be daid by: Chemical hualysis in general. Musifa Briad means yill those principles of which

of the ermited white. of the sefferant the to mi with 10, The Fine in Chemical Ofur ations underes a new Aggreagation in Bodio be does not death us w: principles of the meisted in the Maps. the f To the first of the gettern have some hours. anine Mark Constitutions of the but consi (b) even this garthe is a bounfound begi of live & falt. this hims of Doctrine arises from the Bld Corpuscularian Liter. Le 1 Bir Withe most efuntial Eluid took all ar in hature when unter in waterin The Frodies form y most solid Conuntes.

of the Simple Solids it is composed, such as Flower-water Eggs &c. -a new Arrangment is given to the matter, & new Compounds are formed, - the Zarth in the John is the basis of the Gluten, & can be estracted from it. it is unphilosophialto such for The lance of Solidits, as it does not arise from any line Hernentary Body but from a Conjunction of as considerable trumben of them. Thus Degitables are resolved into y same Harth, but wanter the Cause of this Lolidite? - no. The Lohdit then of all Bodies depends whom a certain arrangment wis altired by Line! The same principles when difficulty erranges would herhaps form a soft Body

Stille a markle doctor it is completed i down to the haster life by he a dead to prompt of the to the the Mind the les win Brown house of the former " the state of the state of the state of 4 dis of the plant the season of the at . If me for the long thank to see the form The face of the Health of the 8º Bo a in from many then the thought the Relen but from a Compression of his considerable the months of the series - A he fitted the state of the same

of the Simple folis. as to the 2 argument, it proves hothing the Glutin arises from a Decomposition Hair not preixist in the Body. 1 de the State of the fetters thating Having rejected the Hypothisis of D' Boerhaave Indre add y: altho we find Heterogeneous mafus int hature, yet we have proofs y the animal follow are composed of Homogeneous Rypegates. - They twee originally in a flerid From, and by the Defin pation of moisture herome solid. - thus a Spidens web by bring drawn out heromes Lotid altho it layin y Spidering laid form. Brindes the animal Tolian auterfeetly hansparent w. shows thin Limplisty. - I write not deny but they are bourpounds for Sheline hature has

र्ग कि स्थान है हैं देव भे pres as to the 2 degreening it promer history the Gerelin relies from a Boson for this fact. of the state of the spirit in the of al wite the state of the section of the section of the Handy affected the Helpo theing prij Distraction of when a day if the wifers The o Haberog some properties int the atheres : efections m/ have parage of the denimal falls are Fle company of thousand the forther. Polis they mile originally is a fluid him was Var the Deficipation of presisting have me delies. heromen whis although by filming fine form. Porcios the Hearing Contin and for feely Frankanen F. W. Africa State Line planter.

of the limple folis. presented us w: nothing in a simple form the Chemists indeed tett us of ain falt-fulfolmer be entiring into y Composition of all foodies, but this hotion is now exploded. This Compound may differ in the propurportion of its parts or from The Insimuations of foreign matter, on this the difficent states of Cohesian Flexibility & Clarkeity in & animal folis may depend. But when there Variations of proportion to be place or When foreign matter is insinuated is difficultto tell. we can hintent one or two Cases Buly in the Lewy Wheneson Dyrus of Sutrefaction takes place a late ingermous Buthor has shown us that it is occasioned by a Defector abstraction of air which is one of the lovinited con-

of the land lefters. protest to me we dother no a dissiple from The Chamists indust the wood Wire 2: fresh person be entiring into a contraction char This Countrours may differ on the has fire frontier of its partie or from B: WI the Levision of foreign matter hyr or le on the different plates of Cotherin fla Herrich I Waster to dan in al - 10 Heid may depend , But when the is a Veristions of proportion to be be felower to or When foreign matter is instinueted hun in difficultion that the bound of the international or the taking the the there were 36 Derne of the faction taken place a late informance the their fine & hora - was think \$ 0 it is concerned they and the first literarchies for ap of this welies in the first for his his his for

= 1 literat parts of the animal folis. 2: in many Diseases as in Cancers When some foreign matter is introduced which changer the State of Cohesism. 3: Water when introduced may action the by quegation of our Lotids, so that a quater er leper proportion of this fluid may change I state of Cohesian in the Animal Lolids. - took all hutitions matter is applied in a watery form, now if this is destin too peat a proportion or if it her not been properly alstracted, or if after being abstracted it is again effersed follows of Consequence we shad have a Change in the hature of the Lotide. If again this Teluis is dent in too mull

a proportion. omif too much in Ale. = otracted or difichated then a Diffirence of

of the dies the faller. a e historient hante of the assissable folises. ly. . It: in money deiseases no in Comments. dino down foreign thather is introduced which will enauger the plate of Cooksison. mou 3: Water When instraduced many setter The here ! By proportion of our Lotters, so thest operation occas en before proportion of this fluid former may or a are e I plate of Cohesien in the Rossinist Solies. gr - hours to property in the selfeliers n A in so present former harris of their is desection to is the pusher heapsolis him him with in the produce of the Le list. If species the Felin Seline is dent in too smith

of the simple folis. Uggregation will likewise follow. The direct Converse of the former big: 4: Folids will become more coherent-left flexible, & more tik trable to Diseases. - I Sheah here any of the Loft Jolido. I shall have occasion to say hereafter that the Bornes are composed of Meterogeneous harts. Bryan Robinson by his Taperiments on Aminal Tibres ound y: ale Liquidstende to clongate them. But he neven found any thing that contracted a Libre thus re-Frakise on the anim: Quemony. From whe has said Iw. infor that no Fireid que lanes los than hot water crupt fhitition wi acts rather as a folwent than Relacer. a folktime f winning falt relaces

of the disselle folds. Appregation will Extracor for low the Mulio direct liveries of the former trifighting ing to will become inverse observed of flerille he bater mer the Latherto week. - I die oh base The state of the delp fation of the first would to the on me to day him the think the terms Lains. and regarded of the house some has been to 10 clo Willeyon Rabitation . In his " a humina mh 161 hence he tette in y Bils reland Modie very little. now we au sur y Bilere. ma - lan most of any fluids when applied to the thin. 161 For he never disting wished betweening Tiffinnthimm of thiritohe used: nor rile Does he sum to understand & hatre or Diffinence between the how various hindred alhabine falt.

of the animal solids. the least of any Liquids the heason of wi is on. ing to the fall i preventishe free Jorgrefo of the water into the animal folids, and this is the base wi all the Impregnating water. would have you however trust too much to these Experiments for The used Human Hairs as his animal folido; for they one so close desemblet in their Organization as not to armit the Insinuation of fluid Provies lo readily as Other parts of Aminal matten " 2: he is very in accurate in his Chemistry of bone in his Chemical Reaso. = nings. 16/ He tetes us y bringer softrelas es les than water, but way anatomist will title you y: Vinegant Softens the Hones knove than any Filind in hatere. repeat thise Sapientents w: more heuray.

ing the filler househild from the profit of the won while on the the works filler and the is the lead the Surface water of a the . his 1 Paris de la Recional Paris de la land linin so where or every theodore the the second the second 1 W miller to a series for the series on potio the same and the same of the same mas in to diffe Con he

of the animal folist. D'Hales in his Homistaticher giverno several Experiments y had to some juneral good Conclusions on this Julijut, lethi his manner of conducting them don't deem to be altogether proper. we return how to consider the Enimal folis i we supposed compand of water be Other masters. in strongth on foted ity depends whom the proportion of this matter to the water. her shall enquire in to the remote Courses is: give then diffirent proportions of flines de solis mette They willdefund i whom the qualitity & Lu abity of hourishment tohen in, and ondition of its application of two much houris amount introduced tends to encrease the hwtrostion of water especially if no Trereise is used to difficultate y Superfluores

desirant made of the district the desirant for the desirant for the second s turn. the sold find and the sold the sold the Linj , as the more hubitions bliment is the Larger & stronger tribre it gives, & vice i dif Verra. Water when combined w muhi. lixes -ment tunto mahit go further w Thou who rear lealous Inddenly con and witness, from whene we see y heapity but of houris hument being applied in affined

of the animal folis moisture. if Trereise is used it will time to enlarge the folids & in and fuljets to harden Them. Too little hourishment gives a small & rigio File. whegand to the quality they matter (a) The proportion of metritions they contain ! The horion of Flexibility the is different in diffinnt learnstitutions- ages. ca hi. Jexes, - & Timperaments. The Elasticity of the folish depends inth 1/10 ach Couly upon y proportions of the constituent parts, but upon their arrangement lihavise of hit (ii) The from the of the body willdefread uponing State of the Toacuations. too great Trhalation or Perspiration heevents homishment the taken in ever links quantity from being applied to the hutition of the body. 2: it will define upon the tate of i afinished ting poison.

M. M. J. fleshings. I Transaise in region in addition of the in large the field being the first the first the Minner Chair Parle Marchanter France morning giv. of the state of th to and the the the the first planting of the the their land upo the sent of the house of the state of the as in different in difficultiferent the desired in the y of tower, it is the property of the second The Links of the second of the to But there is to the section of the ward to be out a part die 20 au present de l'était et 1/ (1) (1) (1) (1) (1) (1) (1) - ion of

of the animal folids

Therefore heither Enality nor Lecontityean give hourishment Unleso they audicted to these from ero. 3? it will defrend upon the fromers which apply it Juch as Izercise - the Fernherature of air & Other Biriumstamusnot understood Such as herhaps Prefence. del Traccioe tinos to harden the folios, huma hard Laboren in early Life time, to limit the frowth of the troly. Heat by enceasing the mos - tron of the muhitions Flied, and Thus enerous the quantity applied - hence he oble arrive sooner at their heme in warm Colimater y: in cold. Dry rufo incuases the Effects of that a Gods - moisture dimenship is. eversiderably. 4: it will depend whom

of the Amening of line the ! Therefore he had been freezer there give the wishment thefor they are dising ly ! to there the more of the statement whom the plant a what is the fill will want as the said of the families done of the line the Police The agent house of the first don't the the finding the face we theories there . to forther the Sure have here to in a sept of the family to the family of the family of the theopy. Heat the sourcesing the the tion of the March his hours and the series the June this opposite for the main some at their last and in which the water in our of my mile mace nece the forth of the or it look when the Simonding off, down Planer of Promoth of the enter the fly . . . fint on the Reduced in the 8

of the animal folios the Original stamina of diffirent Com. = Atitution which a annot be investigated we shall now point out y Leveral Cause Fension in the Body. 1: The Lening Libres will depend upon The Bones they are attatited to they will there fore be qually influenced by the growth of the Bones. 2: The Fribus of the Body are Strothed by weights comstantly apended to them. - Such as am Bone presci ling Oven another_ Our Dufo. Becapations in Life De. Je fame han to of the Fibres of the Body matter they contain - but as the Intestines of Stomach - w: andrung

The despired framework flower to The W: the the times willish a comment to the comment of the of h for short more from a second the Carried Langin in the Stranger Fi 1: The Learning Leilen will dispendent We The Borne they see all white is the fil will there for the guardly in themander to how the of the Bonce. 2: An hilling if the Bash on a south red of horizonth com tandly is here to 8 Is there. tta

of the simple foliss. w: alinest or wind. when the Femius of these is destroyed we find the whole Body brot into Tympathy. we find that dungo qually influence every Fibrous parts of the book number we want to exect the whole brody we Till the Lunge by a laye Inspiration. The Thorax & Redominan heht in a State of Francis by the bapour form · red out into them w; is an am Elastic State. This too fluterine tends to heep The Cellular Mumbranin its propen Frate of Lineion. We have Lame Cleanon to think the Cellulan min : brane is a pur manent levial Murubany motants filled w: die consult

15 i Alimenton house . when the teams of there is Restrayed we find the wint the sty the former to the first of the state the division for while and pleasured in it the property of the property we want to early the while is start file the marge of a large bry in him. the Thomas of the discussion and registering a the of the man in se de sont installation de la servicion della servicion della servicion della servicion della late. This they the desire the season

of the Simple folids This is the fan may not this ain tend to hup the Fillers in a state of Tension? But further if the Fibres are hollow, may they not be Tilled w: a dubble Flired w: contributes Tihewise to hup the Libes tense. These Towns hi theto pointed Out are in: = turbal, But there are several exten: nal Causes w: influence the State of Finion on the Body as the diffireit tates of the in Lumbent ain. The Finsion is Further hept up 1: by all the parts of the Body heing United togethery more than One Librer, or Mumbrand, nowif any of these are destroyed, the Finsionwill of Consequence be I imminished, as we fee in amourisms from the interned Coat of

of the Same hit which The is they are product this dain to hat the Allen in a fait of Fri Liters are the More many they not in tilled in a distribute file in histories Sherine to help the Fisher Some. The There his this principal and so is a · tetter , But there are deverable outre not tourne is inthemount for the the on the Body on the different the

of the simple folids. an acting being wore away. 2: the flate of Genswin will be vaired by the Exercise or hetion w: the Fibus undergo, 3:0 the Fribus will be firm at Martin in proportion as they au filled w. bahown . But if they an filed in melorsti matter instead of Vapour a L'elevisity will be induced. 4: a morbid Oligidity well be induced when the matter w: forms the Bones is effused into the cellular Mambrane. s'a l'égisité will be induis when y eague lable Lymph stagnates in the ellular membrana. 6: a morbid Filaccidits write be brit on when a solid matter is washed from a frant to with belongs as iny lases where the Bones grow doff this may

of the stimphly still. " he de friend were some ! " ! " He will be !! Ferrich to posses of the Principal of ioer Million of the Aillion of the state of the insi The Bus will be firm at Markin in him here had " dont at they and he was had me . to the first far = ni " Content of the file word of the want of the as o 4: a drocked their site of the desired Soh whom the description the the trained Thi to a layer of wallet the water of the day ea mo

of the simple folids 21 be occasioned by too much water heing insinuated me to them? Bast why don't we find them swelled if this is y Care: We generally find them dimi: : nis hed. The water then must art as afolicet of the wash out the sold frants of the Bones. But how This water acts as a followed frances day. we are dure it is hot arid, non e an J thinh it has any him ofline? 7: The State of Fernion in 5 Cellulan Mum branchill be vained ausding as it is held wonthanted to bonger or shorter in a continued or stretched state. (d) we come now to treat of the Cathology of the simple folios. But of this we have hinted fretty layely

with the with the become by the money 90 I want to the think we will have Home was from the season of the season of A 2 Live to the formation of the same of the s 6 the the state that the said is as my threet or their wast part the with the state of the terminal this has the rest for a fellering. -10 day. we doe down it to be the ser a new fighting it to have to rohi To to it au.

of the fimple ohds. When Speaking of their thy siology. I shall I point out their morbid affections & 2 no endeavour to point But thier 1: These morbid affections are to be considered in hos views (a) the hatuell eft parts the the hatmally hard parts. - 1a, the Lofe parts are liable to Direce, Coheren Husticity & Fleribility . we must Observe y these are own in a healthy Aute difficult in difficult lyes. w: is Rigidity in a young person is Healthyin an aw herson. The first Diseases they an Subject to, and Dability Flaceidity & Lavits. By Debility funderstand a weating in the thate of ohimon.

of the free of the set is har from the hand going in ein in the first of the first the Ministration of the constitution of the Consti dion Left hart of the harmide Tylu can the who fear to see the 10 in the Pere the Sand the hereby Muchbirdy of las

of the Simple folier. 23 By Lasite funderstand a Defect of Firm nefo . To obesion & Elasticity hungs given, & arises from an Except of fluid matter in the folids w: destroys Thurstimmel without lepning their Cope. : sion. By Flacidit & un dentand a Defect of Elasticity. I believe it is seldom deperated from Laxits, but we shall iversider them no difficult. Diseases from Trup of Cohenion Hastints & Blexibility are i too much Rizidits When Flexibilitis destroyed is: induces too much Elasticity. as they are never depended of include them both 16 the Diseases of the hand houts remaining we breakness of Cohision,

A desit formered a Style of home we for I show a Blacking hairs given, Il arion from an bear pot their the said the felicies in dealing Kinking for there to their the li. win ity Hermitely from horstoned as Lefter of Barbardy . It he live is is detomin when the form of the we that in the then the see the firmer. wo afine him and and and ias de Tord anson's boy age sound

of the Simple Polis 2he 2 Where the had fouristime remains w: Except of Cohesiown. 3: Where the Consistence in the har parts is lost or 2: we how come to enquire into y remotifiques of these Diseases. i Debility. This Depends of tehon a breakness of the Original Stamina. want of proper afirmilation - or lepplis. = iation of housishment (e) it depends on aliment y contains too li litte butie : tions Inatter, or y abound too much w water /d/ whon viates witisted hou. · rishment. thus the fourery is: lums to Depend on Debility is brot on by bite. ated aliment. this we have from

of the whole the police the 161 may not the Dichetts - Loop hule to Th W:0 depend whom this laws? 11 possition in the hard plants is the who it I the tros course to engine up the the new oth Remis of the ending hon Tollebille the separate in the from n. A freehouse of the Principle of Cominge. = hin y d want of proper him willand or hiple, 200 - continued transmission of the defense of in the the the the

of the Oimple foliss is thowe to how much the Toherion. ulais of the folia is distoryed (e) it dehends upon Corrorive powers applied from without w: Distinguishes this the from The last. How the matter discharged from Pancen ind wees a tirangility in every frant it touches. 19/ it de: = hunde on too much Tatinsion called by De Gaubien Distins is Rush tura proxima (8) whom any of dome of the Zibres w: connect the folia. thus an artery when whom Amenof its foats is broke is dais to be in a State of Debility (h) whon a Diminu! tion of the weight of the ain all there Course of Debielity are attended in Laxity. (i) Debility w: Franzibilt Dehendrupa moisture bring Difichated from houts

of the Time at John house the season of the Season tow the settle of the settle of the settle of 2 white approve themes wither a him in the mast will die thing when the thing there were Dy the last in the the sticking for the season was a firmer of in every part it to we have I fill the a house ou to lower a fatherman eater 40 The the second of the second of 18/ 4/ June and 18/ 1000

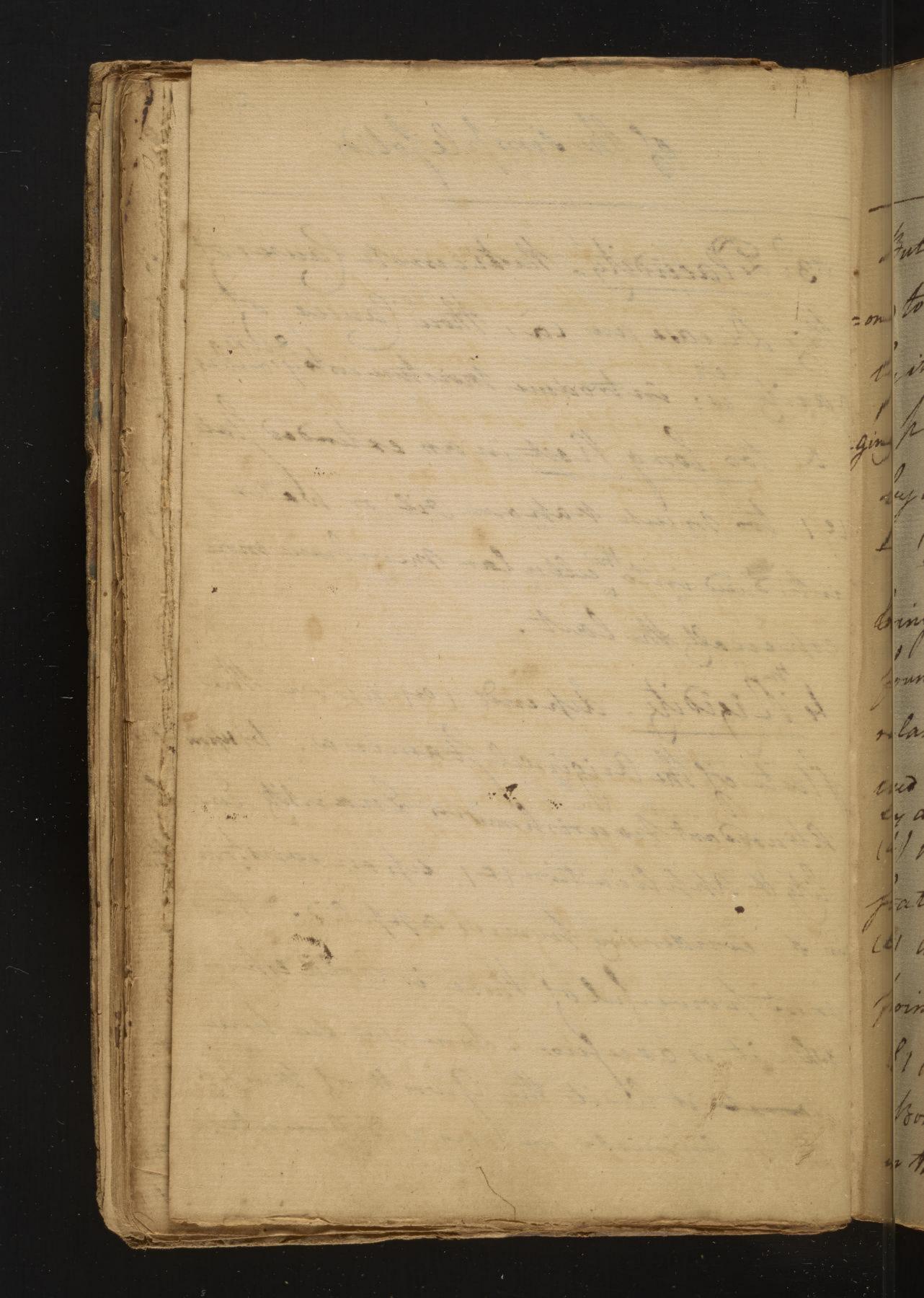
of the Simple folior to weit belongs as from the thin. 2: Laxity. This is distinguish of from Debility as it is boot on rather by Except than Defeat of motion. The remote lauses of Lazity depind (a) whom y Original Itamina of the fon shirth won which by whom abundant watery hourishment, 141 whom a want of the drying howers apphie to the Libres. Jotis become fuch by an Abstraction of Humidity. When this is hot abstracted a Lanity will be indu : ea. Exercise is the chief of these applied howers tel , befrow the light lieation of relaxing fromers w: are 2 Heat bhis. ture. Heat relaxes by resolving the consistent parts of the Shis. Moisture

I the other his father · in the former of my state of the second -eli L'a destite. His in district metaporen de bile for. as it is that the said of incolor finan defect of the their : The receive to he was of Loss it separations in faction of the towners of the boundaries which A- Cu the same the file of the same and the same a and the state of t

of the Simple folids. relaces thost powerfully experially when joined with Heat. Dr Kry: Robinson found the relaxing hower of cold water to be 35. I think y relaxing how in of warm water lang be fixed at 80. - But don proisture penetrate beyond the Puticle? - I much doubt Whether warm water insimeates itrely buy oud it. it is absorbed & circulates this the Lymphaties of may thus aut on the whole Booty like Isceps of Humidity in traducio by the Month, hunce we see The Obrandity of those Midreal an thousalle talk so much of the relaxing power of moisture. it never can enter y folids imediately, and it relaxes auly in a. Lecondary way, by being from into them from y! map of circulating Filmed.

A the street of the forward the cost was 23: fried with that, they is this . of the metre of the comp divid brater to the 35. I the met of warm district francisco of the second of [4] That does theisture from the tiele ? - franch south of the istor warmen de patient eine propose and anne ehr it is shorted the interest white the proof the a lat the deal with the stay the se J'bu.

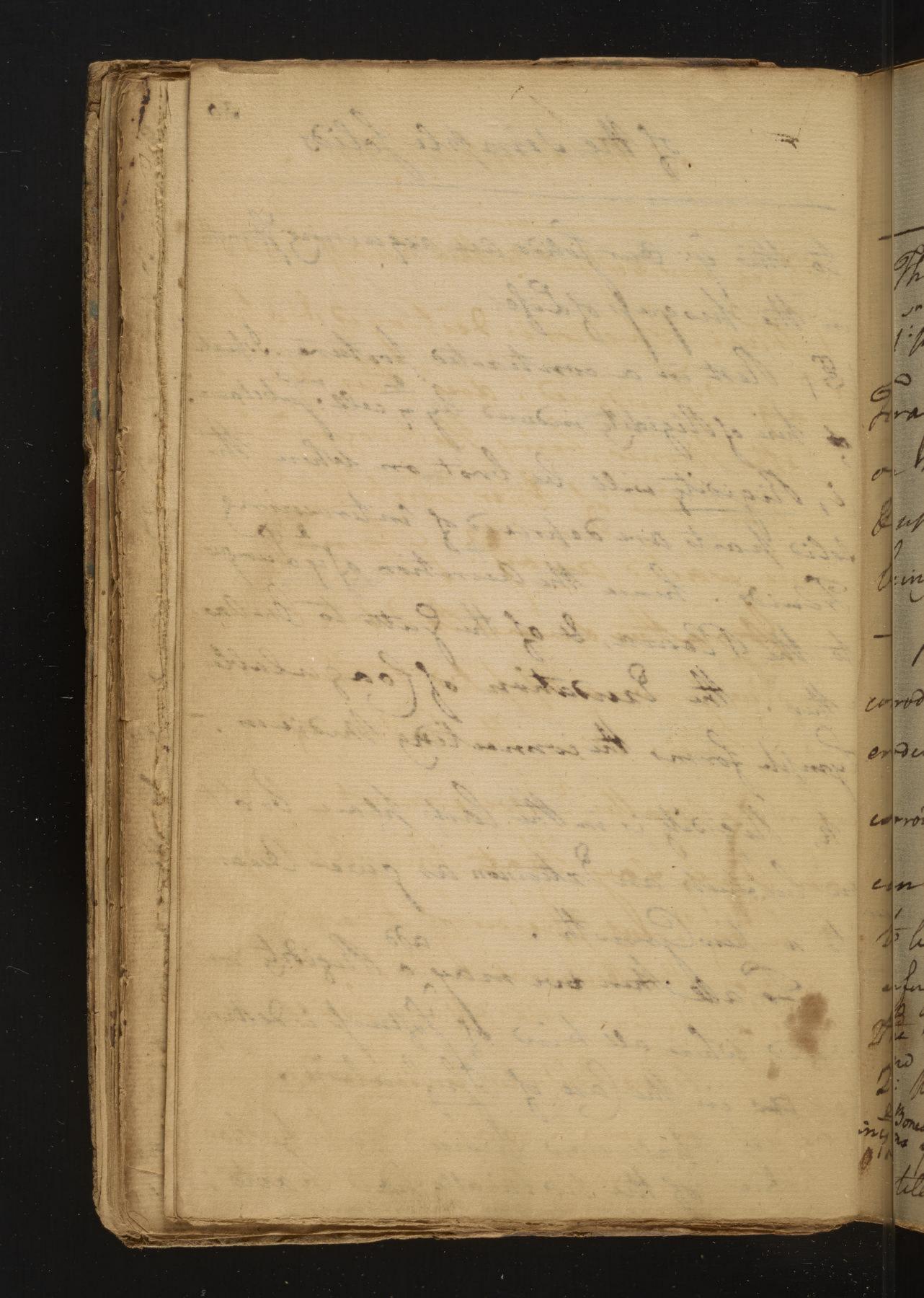
of the simple foliss 3: L'accidity. The Remote faures of This Disease are can thou Causes of darily w: introduce Moistun into y dibes! (b) too long Rest in an extended state Le 1 too much hahour Oil or Water introduced into celle lar mimbrane more especially the last. 4 Migidit depende las whom the flate of the ariginal flamina. 16/4/m Rbusedant hourishmustin Enantity Luci = lity & application (E) upon everstrin: ging & condensing howers orphied. The most powerful of these is bold especially When it is exceptive. him we be how Months it binits the form the of Mundo.



of the Vimple Solids Pout Oligioits is not always proportis = one to total, for the netained Confirmation by its moisture countinaits the constrine ging powers of fold. exceptive that tihurise by deficipating moistured induces Rigidity L'Urtrenjent medicines are Said to bring antiligidity, but D'Mobinson found folutions of alum & britisol nather relaxed than contracted the Liber he luca. in y human Body they comstrange leady by acting on the folian live or heroundy time (d) phon too much Plest in a sontracted (e) upon every degree of Fension withing point of Bleaking. 181 Rigidity in the Organized parts of the body depends upon Countrepion especies in the Cellular Munbrane. It is owing

and the second standard of the second a the second of Alexander of the same of the same of the which had anything the hade the temperature of the second a title a seal that the seal of the seal of + arhiesion den A-M = hir and the formal films the the street with the state is a second

of the simple solids to this y: Bur Johids are acquiring thenthe in the progress of Life (8) Mest in a contracted porture. Ispeak from of Rigislety indumed by y cell : Jubitame. ii, Rigidity will be brot on where The Solis parts are deprived of intervening Fluids, hence the accoration of y Lungs to the Plenna, & of the Gutter to One ano: ther. The Ernoation of Coagulable Tympile forms the connecting Midium. k, Rigidity is in the last place brot on by Such an Extension as gives Oceasion to a hew Growth. To all than our may a Regionity in: Durch where all him of father is destroy. -ed as in the lase of Ofinition . the of the traturally hard harts.



of the dimple folids There are Subject to the kinds of Diseases. 1: Where Johnsion is Destroyed, Katinder Fragilit, induced. does this depund on the Bones being Ree terogeneous makes & upon One of this countituest parts being washed away? I shinch hot. - It rather dume to defrew upon convoing powers applied to them which eroses them. W: is the hature of this corroding Inalter? we cannot title. we can Only Say that they appears to be difficult their of it we way the Scrap heelons Carries differing from each Other. 2: Where Felexibility is is son do destroyed my are y: they break easily. it is head to till When this Occurs. it is ap

and the second and the There was an first the think filling to i the fearing is seeking is her times ovin the state of the s enu the state of the s 9 1 A Marine will be and the 9,0 a marine among the first of the second the parties december to defend the = gits. in the man of the late of the same to - 2007 me. The first has been of the of ne a force that I have comment the 121 Audents Such as Fallo lihenine Non happen Oftmerin winter than in fumnes que from the Ground on which we walk bein boir exter

of the simple foliss. Direase incident to BO Puple we is owing to the quantity of bony matter encresing by her from Distinction of the water & Bie w: are meefsang to give the brones a du Flexibility. - Di gantino tanes trotice of afra: gility in the Booms w: taker place to him ter, wi he infino from Formitures happing Hust fram. But this can. = not be true. no foto can reach the Bones without derbroging Life. The moun Generating fromen of Heat in 5 System Ling Overcome the action of the most intense external feld. The Frontines in Decirin winten may be nother instructed to the Murcles astring w: more Form Whon The Somes than in furnmer. "a"

B 7 10 hours to the to the second -71 non de Alex 3

of the Simple folies B The Bones are liable to a Diseases Where they loon entirely their dolis Pour is tetree. in all this Pases office of the Bonies is Dinninished. It may Depand either on assimony applied to them wig thinh rather improbable. - or whom mild difulving powers w: do Losten them as to make them reacily alsorbed & into the fystem. This I think the Most mohable Opini:

A STATE OF 20 Pero arly The state of the said Sometimes of the = digy Det was I say the or was the say from : after Marine Miller & Marine 1 12 tini hope after them so the house the The state of the s i dino treate the dissert

of the hervous Tystem. a den on ledge of the Franctions of the herves is of the atmost Importance hot only in the Physiology but in the Patho: · logy as you will be more fully here. : after. Alle our Motions both bital & burimal depiend upon them, therefore of høpe you will excuse me if f dwell a little to apour them, & endeavour to illustrate some of their Trumations. To the he wous fys tim bulong the Pora in Excheleum the Medulla Oblongata - & Minalis . it comprehends Tihewise the hours w: are distributed - the Extremetic of the herves are all

coun The year Bar and the 120-6 = /212 - this he gos

of the herves connected so: two fetts of Organo bigthon of June and Motion. Under the Mend of June I do not Incan to treat of all The Junses, and the manner in w: funding are communicated to the Brain by them, nor under the Head of Inotion do I prohow to treat of the Force of Muscles de. - These are equally foreign from our Jule. : jut. - The Whole Thonomena of the herous ystem may be reduced to 1 mprofion, 2/ Thought, & Contraction - do ale Mise Thomomena dehend blows. motion? Jam far from Efresting it. the 2" is grot the moberty of motion but depresson finit or four or down in : material priheible, tout fuffinn that

che. is wi A in In Jensu the ening maps 20. aher de Die

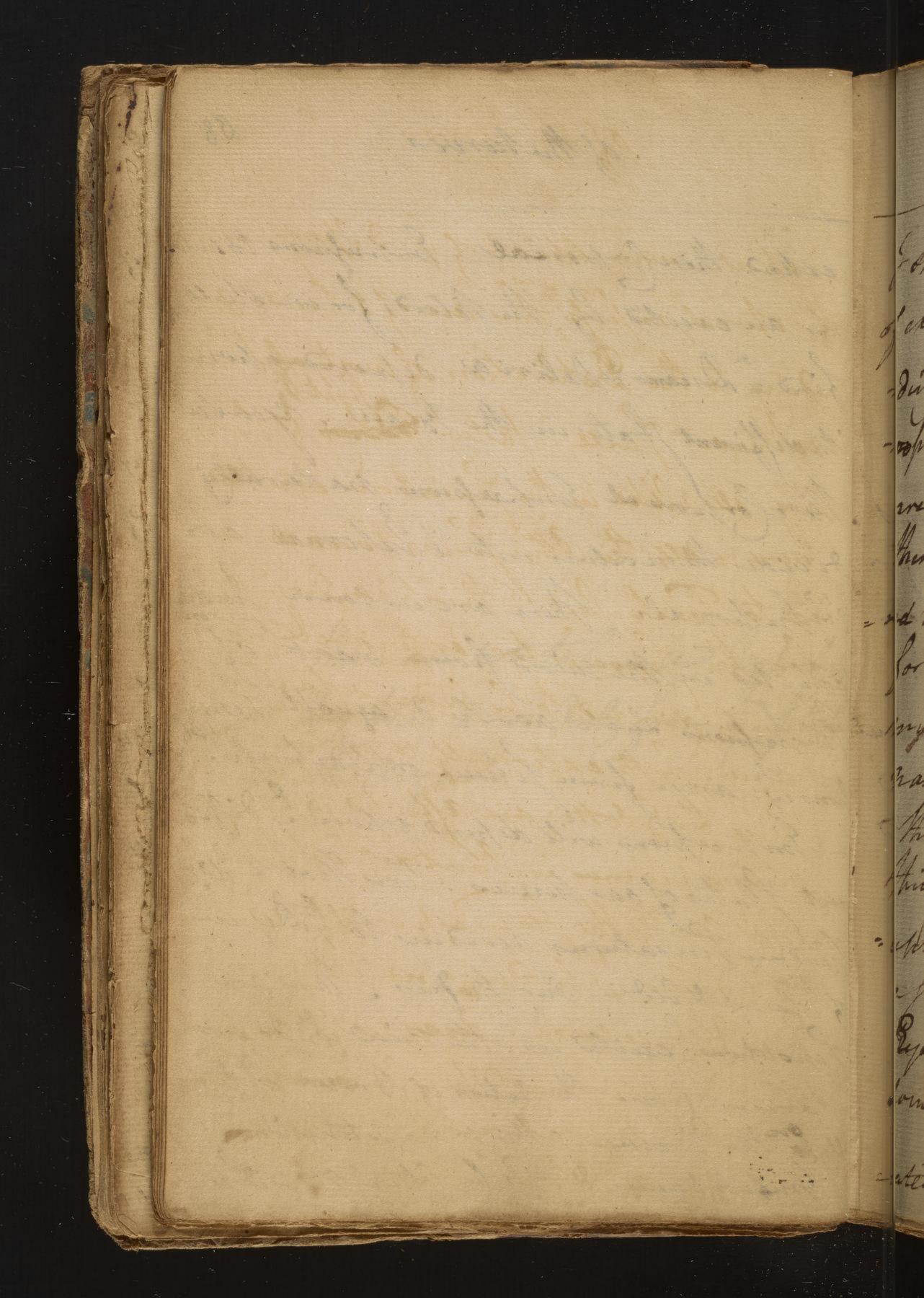
of the herves it hever can exist without motion, is without Impressions communicated by the Ingans of fense or motion, acording to the maxim of the John hil est in Intellectu quod non primo fuit in Mapression The firm as here used is confined touty to the actions of those bodies w: are and made on the nervous fystem. it compre = hunds l'all un can discover in external Bodies y: in relative to Cours 2: it compres hands the anotion excited in the Istramities of the herves. 8: it com prehends y motion De is propagated from y Latremilies of the names to their Brigin. I hire make no Distinction between the Brigans of Jense upon them both.

(a) the bond mental Impression of the mind we here speak of and In way connected is: Imfufniss.

37 of the nerves propressions are divided into two hinds L'Exporeal U2: Mental, Withe i are Those wi an made by matter on y Body the 2: are those Where thereon Throught is produced without any manifest motion. ale our fin outions are either direct or reflex. The direct are such as found Brown Deceite on the mind. The Reflex and but Impreficous as are attended wiples. : sure or frain, & are more principlumtal. - I shale here Cheah anly of those mipreficous y; and Confrontal as there can be more distinctly marker. Gehall not confine this kind of Imprefrion to the external Impane of the Body, but to ale thou things w: Operate within y: Body especially luch as an extrangus Such as horms Calinlibe. Inghis

as they arise Only from & State of the Conjano

of the herves extend thereforproved Impressions to such as an excited by the Blood, for we shall find y Dreams be Delivie a depend whom its different states in the Brain. you be These for home at Empressions naturally divide Ham Selver into i Intornal and D: Internal. There are certain Jensorti excited in the suind from heart of Impressions Luch as the disaquable finsa : høns w: arise from filener or Darhneso! - Imprepions will depund whom y diffi: : rent States of our houses. Thus That I do produce Junsations acording to y Degrees of Heat Hold in Bur Bafico. There are Junoations existed in the Mind wi do non arise from the action of Bodies exten: nelly the herves. This is a distinction of Improstance, & th: be Often attended to.



of the herves of external im profs they are of 5 hinds lever - Ding to the Distriction of most of the los - sophers. Jwell - taste - Stip & having are all alike in the Junsations exected in them . all the Other Jensations are release , red to Fouch but of thinh improperly, for this finge is too extensive & too much divided to be moned to love name, both externally & internally, Then the Glothis are affected is every the the Attender. : cuft Cin, the fto mach is affected w. a Strinders 4: produces no action on 4 Eye, & vice vena. Does not this firmish Lowe finitions of Their wifir Gracia

(and this supposed too y: the runes must be always thether in order to duffer Mis inclastis Lewis to pati Grepafo. now this we know is not the lase. that jens a tions cannot be communication by the herver as time Casti Cords is a Tuppori tion too abraid to be insisted

of the herves hewton fint hinted at. This Fair is not an aqueous inclastic jubrame as D'Houshame has Supposed, jor it mos such a de Paid never could be fit for the belowitz & Remany w: we the. fe Trision defeends whom an Oscilatory Motions excited by the Bays of Light Hearing depends lihewise whomeurtain Breillations excepted on the anditory home by Fremulous Inotions in the live eshich arise first from a trumulous building motion excited in the Lounding Book Junele may be auounted for in the Dame manner from clastic bahorer flooting in the air which produce

Tay The variety in Smells defunds Hoating Body & the Vapor in More. They the Person Le invited of the state of the said

of the nerves Buillatory motions in the home. a then Faite & Fouth might be illustrated in the Came Manner, د. ؛ Jao not putind to day wiy hatun of this huvour Ferind is . D'Haller denies its being of an Electrical hature. Itso not laport if: it is, har is anapposition necessary to an: for the Phanomena of Impressions. it may hea Febries · Lame what analogous toit. But from Whence is this Fluid Quin I how it it confined in the hours? This is a difficult but not a desperate Juliption of The fram how has supposed y: all tookies however solid eve inveloped w: a Jubtile Other w: lihewise hervades them, & on this

Sepe ats Ou a - puni To

of the herves he supporces attraction Al Comulaian Depende. 2: all the The nomina of Hectivity depend upon a dubtile laid. - all fluid Bodies of every hature are hon Untiches. all Lolis Bodies (Mutals excepted) an Electricho. 3: The dame Subtile Otherial flind gives the whole Phoeno= mena of Mugne time in from. now may not the midullary Fribus from their Original Tourformation have a dubite Othersal Flind athering to them like The bragnet? we are arguainted enly w: the bibrations of air, but as the Other acoding to fir for hew town Ofine is millions of times finer. So he Supposes y: its bibrations may lucaniedon w: millions times quater belouits.

rea 1 12 1 100 Such ne iffe and The state of the s

of the hewes. Clants have beingound to be propeled I fritability. This can any be by means of Come End the Otherial ordind. From all this we may four ume Such a Flind is in the horse . are don't pretind to say it is analogous to any of the Fluids we have muntioned it is 's diffirent from them in Come Ming! as, Depliens Supposes. But from Whene comes this Flind in our herves! - here let en herve Reconse to Hetricity. we find Come Bothes have a power of humanulating it, Alter again propagate it ar door as it is thrown in them. Thus we dupy from all the Surrounding bodies.

· A nop Tus Hz - wimz

of the herves De Haller imagins y Mis Fluidis derived from Ohr Good, Brut we shall more Thope hereafter y; it is not hable to Exaustion or Repletion. For the Bervous Frenis is Buither present in our Miment nor hourishements nor is it ever commented wo them till They are converted into moullary ! Matten. Hit in our aliment its Properties must be much change bylas it is accreted into the midule! Libres. Thus we find metter full hur has no attraction to the Electric Elivid, but when hardned into a loke mafe huromera powerful Electric. For Jam of Oni : nion w m: De Bourdeaux 4: the midult : lang Film are of an innutable unchon - geable hatine. But how is it that

: tie J'era 2 to

of the herves This Otherial Fluid is confino? - to This I answer y: all Goodies have a entitle Other adhering to y Junface, w: has no Disposition to unite wi the Eurounding air. This Hartis office is Monthi & Lishoned to expand qua. -que busa, & get we find it may he propagatio along a metadic Post for many miles won't flying off. - purhaps the Reason why it don't fly off is y: it is Currouted is by the. : hie Bodies Cuth as hir. how may not the enveloping murbranes of the herves be boodies amfit to propagate the howers Flind, & may not this be the Breason why it is confind for we find y: the greater or leper prepare

rs Joseph an = pore 7 : The Ah 26 !in

of the herro. of these enclosing ministrances very much in Rume its motions. Loffer all House things as Conjectures but hope here after to prove there more fully. another drestron hur aceurs Dy is Ou Oun nerves hollow Fuber? - Why to His I answer it is not murpary, to lap : pose them buch . for the Other is to Sub-: tile that it may be propagated as well without hollow tribus. we before hinted in w: manner Lijatures acted in Stopping its Mother.

inte 40 % ceta

of the herves we come now to the Second Division we made bis to 2" Thought. Johnle. considerit as much as profible Deperate francits Causes biz Suhpreferou, Hunder it shall include ally hum tal Thes rations, from bolition to all the in termediate Operations authorist Hombrefinn. Hun det how very extensive the Puly'est is! - It is a " matter of the litmost Consequence, and = of quat Influence in Prepir. I shall " however con ine inspect to that w: is most applicable to our present, Lystem of Physics.
Tohale Beyin 1 w Jensation w: is The Four dation of all the Other mental Operations. It is a simple I sea not to be defined.

A THE STATE OF THE Who and doct as from he had been to the same of the same of the same of the the established the second that we 3 my though the history + made distant the de la contraction de la faction de la contraction de la contractio the the telephone is a i co dun a IN JANES A V ter

48 of the nerves When Olijests excite faces in our mind we call it function, it arises in Consequence of motion excited in The Jensorium Commune. it is therefore I tunition of the Origin of the howes. - do amprepion, excite Contraction without the Intervention of ferration? yes I think they may. for i when a bruscle is cut out of the Body & and infrien made unithy a hudle we find a Contrain , tion excited on it, here no hind of finiation intervenes, for here all ommunication is cut off w: the funorium Gummune, and the animal has no Conscious ness of it, defensionents is always necessary to Junation. But 2: we have Ither Instances in the living to odies. Amo the Surprepions hude on the Zutto

* of the state mained American to the Commerce with the time in un Marian Marian Marian Marian So This was the same of the same 1 h - Li ut the part of the second asi And have A A STATE OF THE S un in the state of the 1 - the all designed world before ins soli

of the nerves by Purges excite no himd of fun sation in the funsorium Untile the matter hunged of arives at the Rustum. Some here tett us y: a Repetition of the Smhrespion takes of Junation. - En many fases this may habben, ant in the Instance we have adduced it has no or own dation for it takes place wer in the first purge we give. In? ashe here who over felt a fundation from the Experimention of Dimeticho? or even Emperion Lyst we Sexan Evident Contraction take place w: cannot be resolved into Kabit. Canthaides it is Anne excite finsation, but they apresti in the hech of the boladon, & noton the Shidneys. Enestion occur here

of the leave and the property of the said onged of haired at the ias for the Contraction is hunciated by a protion communicated, this the ar a Jensorium Commune 15 ashir in the court the entire

of the herves how emports y: Contractions are exected in places no ways connected by hower or muscles wi the place When the Sur preferous, are made, now and are not these Intrepions accompa-- nice w fundamention or Thought? no they are not. I have deen afterne in the Stidney, excite Sichnefit vomiting & yet the Patients neven felt the least Ameaning in thism. Firmeyo. many Ithen Examples of the Who himo might be addued in those Cour w: and called fynnfrathies. Jensation is connected wi Imprepion and for the final purposes of alarming in by pain or alluving in by I shall now go on take hohis

The state of the s The state of the s the second of the process of the second of the faction and the person 4 con And the state of t And the second s the state of the s the stands of the stands say the the state of fai I had see with the see of the The Parker

of the herves of thou Imprepions w: do excite June 2 sation. Our finsations are difficult I awaring to the hasture of Sinhupion, as in the fense of hard & Loft be, they are diffirent 2: acording to the hater of the Organ they are made an. This may depend and (as the Extremities of 7: Newer heing diversied, or (upon the State of the again in which they termi: = nate. Hus we many conceive the andi-: tory herve w? weein's thedight if planed in the Retina, Debrice hima. 3: Impays vious are different acording to the hatters of the fentation arising. There is no formers thou be tween Imprepion & fine a twin. There is hothing in Polour y; gives us y least I dea of their depending whom y difficult the House of Light.

and The state of the s The state of the List the second Frans September 1 Secretary of the " the signer to 00 he 12 /

of the herves der De Haller i Primædina \$ 556. - This Obvervation is of the Whost Come sequence as we here Distinguist Body & Mind from each Other, and it is the strong: Engument in Favour of the Immateriality of the faul. all our finsations your Der de hund upon untain arbitany In the tutions of our Greator. Les no Acasan why the Refrangibility of the Ray, glaight wi give ung da as of a not botom shi not have gwin ero the Naca's of blue Laws of Linsation are 1: all our finsations depries on empressions but they are remarkably connected w: The Degrees of Impulse, insomuch as lume = times to charge the functions. Thus Heat & old depend on y came inhalse

Carlo at the state of the state 1 the 2 -= 1 reficos mp · da tion

of the nerves but the finsations they excite arriving Visionent. all funsations therefore are us the funsability of the part they are made an. 2 - hot und done but Duration is newsary in Amprepione in Order to exect forsation. all transitory for-: presions are indistinctly perceived. when an Imprefision remains for Some time it excites y's funcation we we call attention 3: Law, is that the mind receives bent Em Junsation at an and the Same time - When the mind is duply an eaged in One Junation, any future imprepious made on the Body excite no finsations. The francis tion of the mind, from ling finsations To Ono ther that we are aft to decive Ourselves, but I affirm y: 5 mind can

ex a A CONTRACTOR OF THE PARTY OF TH to for tise (zin la ue . ame

of the henres have but any junation at and. 4: Several Impressions may Hunte at ance when thou can unite do no to produce Ine Sinfele june ation. all These Impropions must be of anyhuies. - Thus the junsation of green in our mind is compounded of fellow and blue. The Green is as truely a simple Junsation as the blue or yellow. The Same thing takes place in found. The Combination of aquable founds forms Harmony, the combination of dis: : aquable Jound forms Discord. I think This Law will libowise hold very gin : neval w. Regand to the Insations of Tomh- finile & Faste whereally in

一年 推上在上下上 their presentations and the their the I all in the second and the second in the second is all the tree to the same have the above 1 tha the chief the chief we a transferred to the state of the state of July The feeling of french was a same as well to be the way on it Freeze 12 and format of married

of the heroes Thore of one himd. It is newfrang in ale Cases of Impressions of this hature I that they be Junchronous - that The compressions be very minute - and one of the one with all settomos while out is all setomos cantic nne for Sometime after the Surprepion is made. how if an impreferior is made imediately afterwards, the compression : ons are compounded & a dingle fundation excited. thus if a long paints his Top of a bariety of Polaruns H whihe it, all The Suprepions on the Top will unite & produce lent and funcation on y him? - This finishes our line of funcation I go on to Observe y! They may be renewed by the power of is fout called

mentioned in the second of the Mark the formation of the state from (a) without this we never ch? become will arguainted w: nature, as every new And Inspression w? enastifully our / I deas. In his All Manually plants as as frim The state of the s and it the state of the s Win

of the herves memory. This is of two hindi !: When the Juns ation is exceited by a Nenewal of the Imprefrian. This is called Deminisceene or 2: When The finsations is recalled wint any imprefer ours which formerly excited them. less this doct of mennory is of two Theries 1: When the dea is les vivid & distinct that at it was in the Driginal Imprefrious 2: when these Deas are as Strong Storitimes as the Original Ideas Themselves were - This I distinguish by the hame of Imagina hod which renews Ideas do though as to brake as imagin the Inopreficiones to be present which at first exected them. _ Was Hale 2559

of the decrees The state of the s Citian and in which we will - one want Gen · my in laway water to be a decided to the same 1 im . the a 0240.61

57 of the nerves Let us now inquire into the lawses of these finsations. Why does Cieminis. - conce bring to our minde Ideas form zorly excited there? an answer to this would lead us into very subtile Discufsions. I shall only enquire into the Greumstanus w: att und it. In every Impression we have a compley he insommuch y: in all hature we have find any two things alkhe, hence y mind Talways enquines how for the Impression resembles in all its Geralities the Improf. = sion it has before. Wis the Cause of mmory & Imegin ation? It depends either on an apociation of Deas w. a present external impression on whom internal Imprepions made

アールレンジーンジンデー man company the the the land of the with the straight was to prove the straight the state of the same of the same is is Of is at the one of the Secretary to the sale service and the sale of the sa Commence of the same of the commence of the short of a same was in Ada the Line and and their the terms

58 of the herves on the funsorium formmune. in this association of Salear is called adgement Idepends on certain Relation of Impreficons in Position place & time: so that from our impression many formen Dear en ay be renewed y: are connected in either of the Chove Ways. This is the ordinary Panse de Grenise of humory. But them is another Course Depunding on Imprepions made on y densorium Commune as in Dreams Holivia. Areams indeed Atten arise from external Impreficons. Thus found - or an Ower Lord of Lord Often bring our dreams, constitution esternal Imprepions.

7 Juns Min Who nı exit CILan

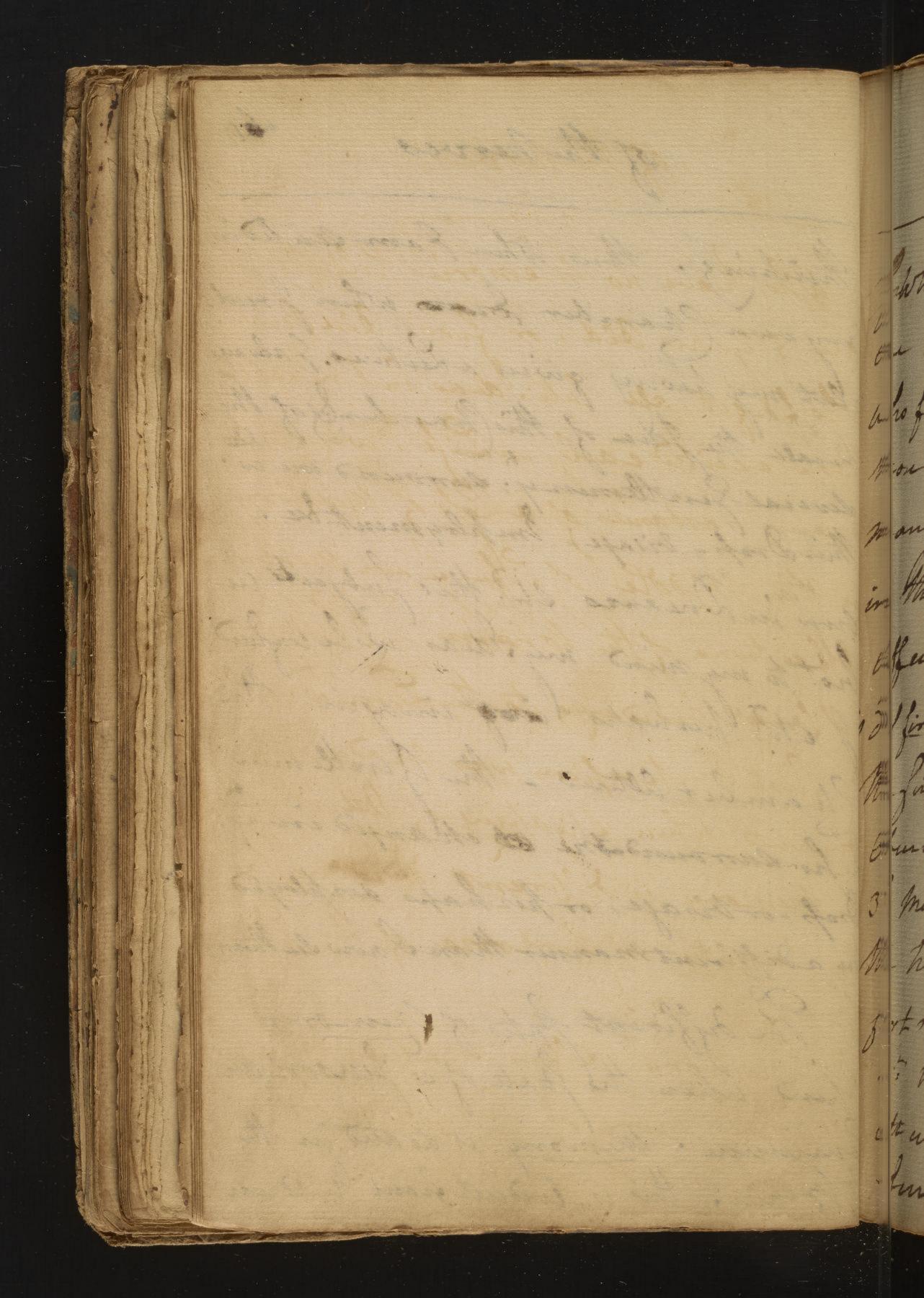
of the herves Deliria depund upon the enemend Impulse of the bolow at the Basis of the Brain. in all Dreams Deli= nia Imayination is excited rathery; mensory. & Shall here after consider now Them (as morbid Pases. I shall take how how in hotice of a Laws w: take place in Mumony 1:40 that no other can be recalled to the mind that warnot excited by Some Impreficion from Same Journe of finsation, 2: all the dies agained by Imprepion a annot be senewed by memory, home but those in are acquired by Hearing Heing. I can recollect founds & prospects, but cannot recall the Ideas of

of the star sees ANTHONY ANT A STATE OF - 60 - fair ha Am - at : A qui

of the herves fmell - Faite - or Jouen - happy for no we cannot seem the finsations of Vain. the Ideas arising from mell or Faste can any be renewed by un: - tain Jigno duch as words or founds w: have formerly hun afrociated w: Them. we only remember w: Aw Jin. = oations were, & am sometimes ful the offerts of them as in thinking of puacamalint in their fares wedo not remember the Faste of Spuraman . It is by means of memony weding : tiquish be tween manels & jound finse Duaming Swahing. For the waking man en his Junses recalles his forers in y: From in w: they had hum afor :
- ciation of I would call Coherence in

of the theorem 11/1/1 7 ino Con

of the herves Thinking. Thus when fam leated in my own Chamber Sum when freed. - let my having given a Lectures. Jahrays several gentlemeny; surround me en: Mir Drop- bilage- Imployment de. Grow in Dreams Sh? this Judgett be brot to my mind my Ideas w. he confined, I ch? purhaps ling imagin this Chamber altered - the Guette min who surround the so changed in ig: Inop-orbinage, or her haps somployed in a diffirent manner than I now be thism. The diffirent states of Commony Then whom the state of y Jensorium Formune. Mis is Évident fram Children



62 of the herves John have no memories till they an 5 Gears Old, or from Bed Persons who forgot all late deas, but necalls show excited early in Life, we betoo many Instances of a Loft of Mumory in the middle of life from browbid affections of the borain. 2: Mumory is different awarding to the Love w: which The first compression was made as we Thurs when Sheahing of Bettentians 3: memory is different acording to The hovelty or Jurprise of the John first received. 4: Memory differs as Ideas are att under more or less wi nefter Junation that is from heing more

oli oli 8 and the same to the feet 13.5 mori port. 0 - 4 . 4 wi MANA an Lun tens

63 of the herves orlifs accompanied w: Reasure or Palin, or being more or life interesting. 5: falas are retained longer or shorter anding to their Celation more especially forget the Relations somest with the en entern manho or figno. 6. memory will be more or lep strong airiding to the humber of times Ideas have hun excetted on the mind. 7: Journale be nealed acording to the Perception of Relation which they har to ho. memories are of two kinds, Such as an tenacions of figues only which as hames or Langueyes 2. Such as ane tenaciono of Relations, this constitutes Will called Judgument. a man Who

of the started the Greek for M. Chieffer was Who in Front is their Villeria Ville to the the terms of the gin in 2 为一年, AL STATE OF THE STATE OF *

of the herves populses this must also hopep the Jorner in Some Defree, but a man Who has the former to a great algree generally wants the last, as his Unind is occupied Centyw: external Relations or mere ligno. ove come how to Sheah of Reflex Tensations I then all direct funsations are attended W! Pleas une or pain. Mis Some hour doubter, de have caid, there are adiapho. - rows finishins but if there are any Mag must be very find. The Firm shere uses viz: Pleasure & pain are l'able to ambiguity in haing confounded w: Other Jensations that are painful or pleasing Only in a leper Degree, or so

they fair ris fro Jen Jour dire ris tu Th. ivi.

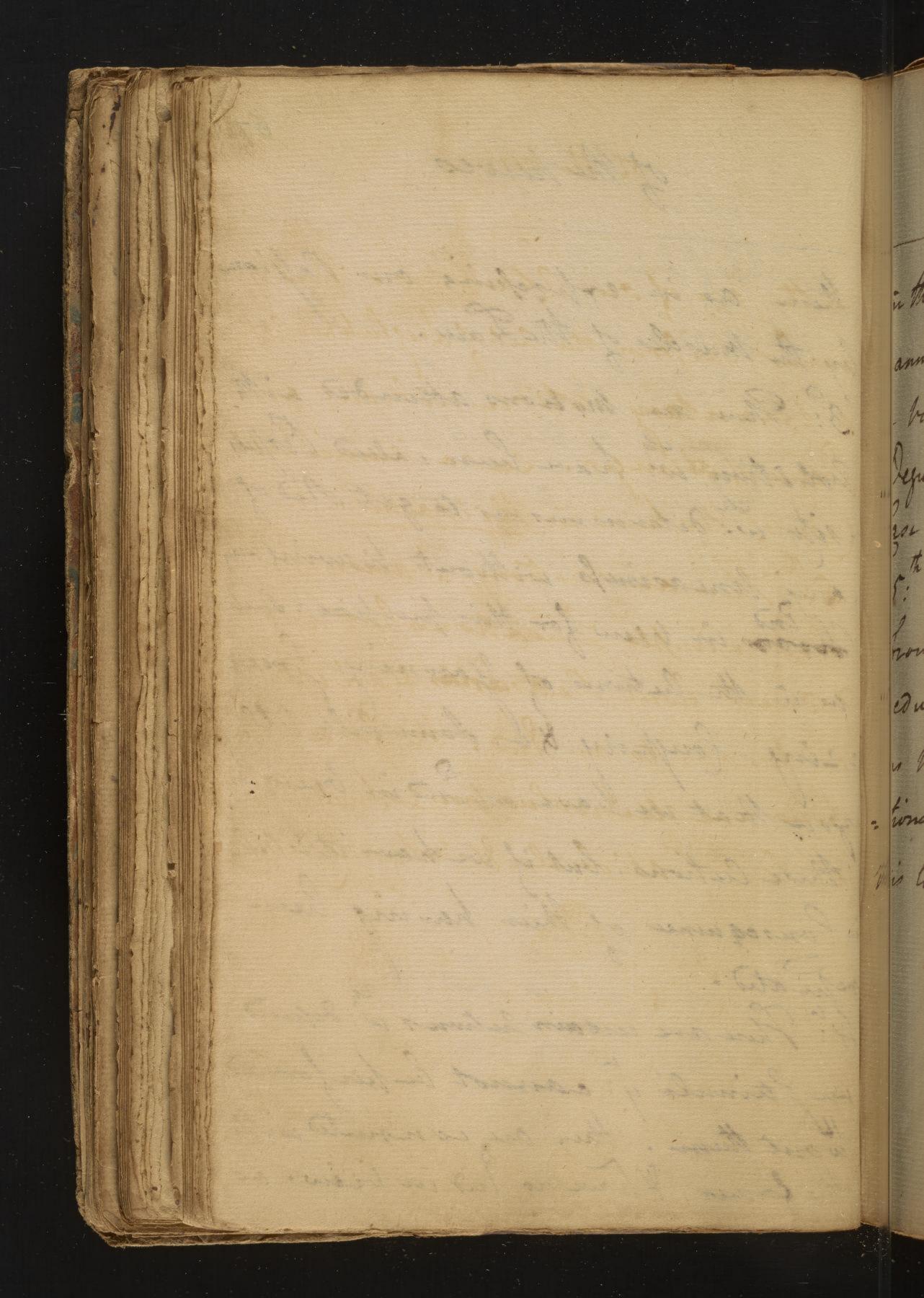
65 of the herves they be her haps of another kind. Thus Jain Shi be applied any to y Juns ortions arising from a cutting of a dinife for from any Lying Jone to the Body. Uneasy Jundations are Such as arise from Phansin He. disagreable Jensations are such as arise from binning an org ugly lies - ture or any thing of the him. The Pleasing Juniations may be divided into senable - delistiful, and pleasant as arising from viewing a beautiful prospect - from alaents & from benery. Every Reflex Junsation exists to wolition so y: they serve as aftrain to connect pursation & Volition.

ru = 2 : mitnut wis · h Thus

66 of the henres all Careflex Jensations are attended Wi pleasure or pain & therefore excite to action. But by one welno = 2 end we shall distinguish actives m= : stinet bekensom. every lut of y bill arises from simple Distinct Junea. : tion or from the perception of Relation - When it airses from Simple distinct Jenoation it is called Instinct, but When it airs from the Perception of Relations it is called Deason. - I shall now take hoties of giram: ; stanus w; attend bolition, but I hall Observe 1: American buns bolition with out Juna. & There may be entain motions in the Body without our four scious nesso of

ten the same y to 3: "yol, white serves to rity Will El n vi The state of the s :: 2 in # the Pon in

of the herves them as in expressing our Passions by the muscles of the Face. 3: Then are motions attended with Trolition w: have been called Profun : 1ity w: determines us to get Aid of any Incasines without having any Hospin bien for this purpose! Such as in the hetions of your nery - Inee: : 2 ing - loughing & L. Lomewile tell you that we have an ind in briwin Ature Cutions; but if we have it is buly in Ponsequence of their having her repeated. 4: There are certain retires w: Depund un strinkli y: cannot lu hur somed with the former, I have no bud in bien. as



68 of the nerves in the age of our appetities. Thus we cannot her form the act of Deglutition altho a boluntary motion without low Degu of Hunger. Du a kuneshable Case of this hind in Kildanus. 5: There are Mothons wiarise not from Limple Junsations but are deduced from Reasons & an excito as means to an Ind. the formerhos . timo are all involuntary or Instinctive 1. Il Wohn tury.

The Part of the second be en かり the the * Wh. n

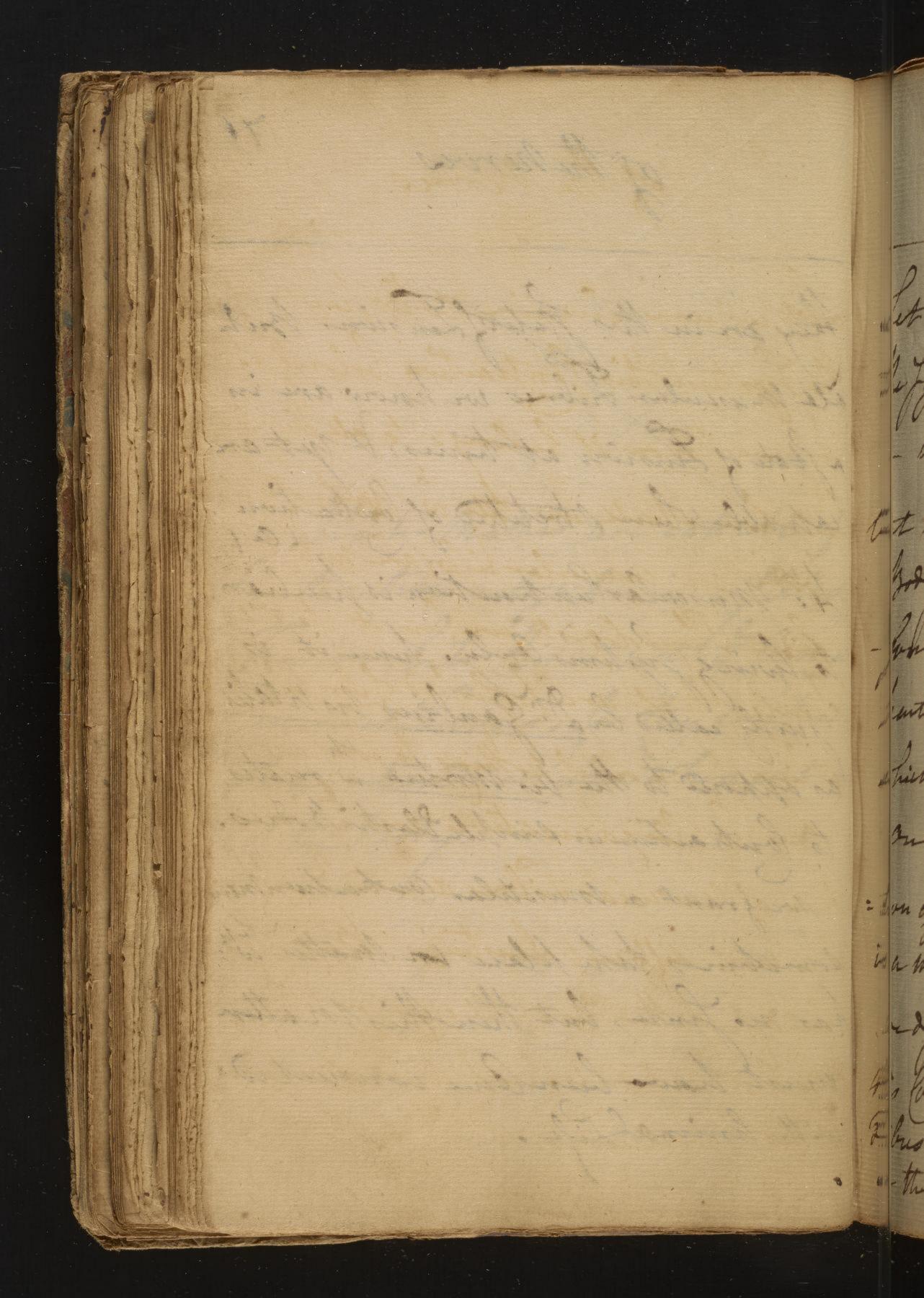
of the heroes we come how to theshof ontrac: : tion. Contraction takes plan in certain parts of Our Ly, tem Buly, from wither been inferred 4 it defends whom a he sulliar Organization of These parts. we shall fint enguine Whather this for traction debunde whom an Planticity of in preculiar to them in common wather matter, belowing Whether Als Contractility is punti-: ar to musuelar Libus independant of their Pounestian wi the Grain from their Conformation as Dittaller has as to the I Question we may Oburos 4: the Contraction in

w. 2: lu di. 1 in a contu

of the herves musular Libres is much greater Than in Other Kinds of Blastie Smatter. 2: Planti Britis are Contracted by burding howers alone, but Musuelar Fibres are contracted by Julitances wi have no Tendiney to bend them but as Thimuli. musiles a from this au: are said to be propins of Irritability. but I think builtility would be as better loved as the term Instability lufor - pour june. we shall however call it hereafter after Drugt Smitability. 3: all Elasti Book is When Atratale return by ain to their Brig Length, wor can any thing mahethem contract When

(a) Martin matters are capable of for to as trun only when in a state of Fension, but this is not y Pase is Shin relaced, or even when contract on by

of the herves they are in this Hater Lension. But ale musculur dribnes we know are in a state of Lension at times, Hystran capable when stretched of ontraction (Co) 4: muscular funtantion is pulliar tho to living fystems andy. home it is est 1 justly ealled by Di Gambries bis bitalis tras as apposed to the his mortue windates to fontraction in simple Elastri Bodres. - we grant a munchlar wathantion may Sometimes take place in matter wi has no June, but then this tratter must have been ame connected with animal Life.



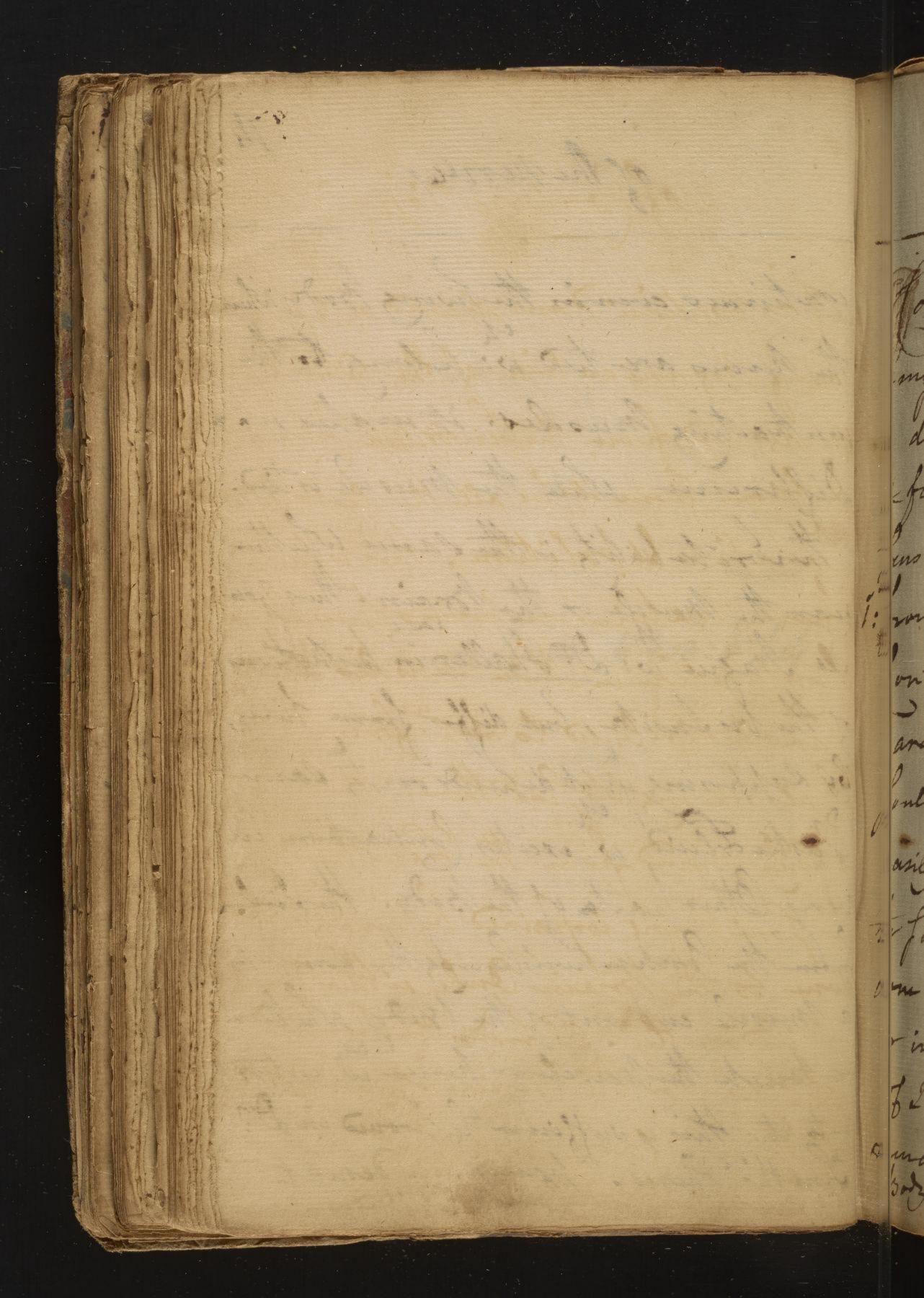
of the herves Let us now enquire to whats of The Tys tem this Contraction belongs. we know it belongs to all Murder, but how shall we till wi parts of the Body are unusular Kw; are not? - form Physiologists com, in it to all hents that are proposed of Imitability which I know of hothing to workadich. on w: Organization does y Jostus : tion of Immeular Tibres defined? - this is a most difficult Lustin. But before we difus this we shall enguine Whather: His Postraction is hundian to ihundan Fibres themselves, or Whither it depends on the Grain? all Physiologists

The transfer of the same of th sa And the state of t lu tall a his out. nh the the section

of the herves. suppose some any former and as an Influx of Blood or heroons Other to be needs any to Contraction excepted? Hallen & a few Others. we grant that a hour muscle entout of the Britzis a hime fines to it will contract. But this continues but a very Short time on w: does it defrend? on the Me havism of the Munde? or on a Sintient prin= : eifele? the last is improbable. we must then admit Do Haller's Vis Insita & say there may be outros. tion want any Influst or aufrory hower. De find Touteastion

(u) du Primo Linco \$ 403. de 404 The state of the same is the

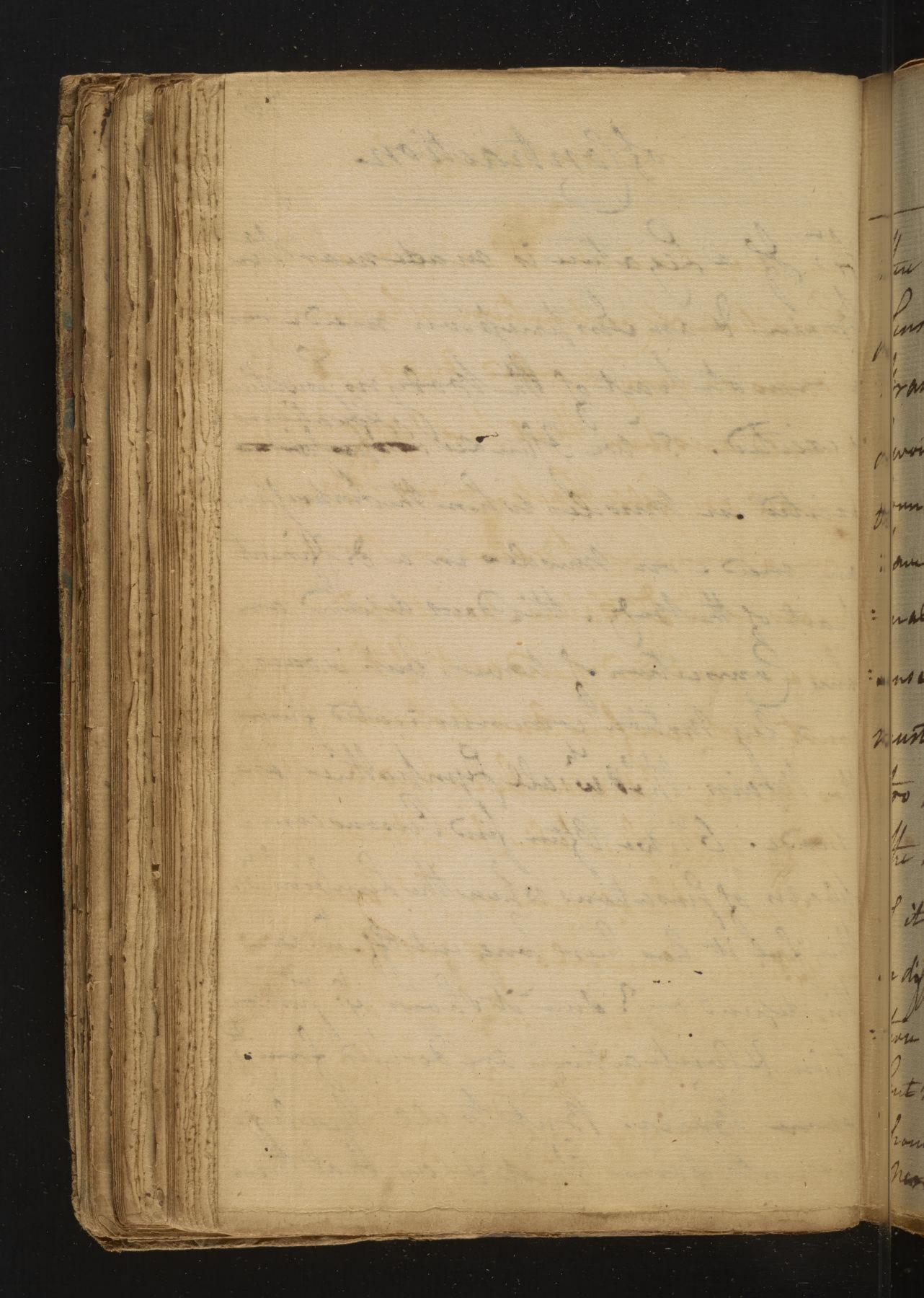
of the nerves continues even in the living Body When the herves are tied w: belong to the contracting musiles. it makes no Diffirme When the musike isted. - The Fretability is the Same Whether near the Muscle or the Brain. Thus zon der Jaque w: Di Haller in his hotions of the bis Insita, but differ from him, by Supporing 4: it depends on & Same Mastre Fluid w: excites Contraction in every Other parta of the Body. this Linden from the Portrections being the Romein a muscle cut out of the body whether we touch the muscle or himes wienters Into it. Atis is sufficiently proved in D? Imith's Phisis. France him desunt



of Contraction Montraction dont depend where any Corganisation of the Musile, but is derived from the ferrorium formune, & flow from it in all the leats of Jens atuen Wolition. This is from 1: from Lightnes on hours preventing Contraction in those muscles they are Distributed to It; from The finds having its feat them. This is easily proved from the traculties of the faul being impained by an Lujury done to the Brain Only either Tineth or indirectly . 3: from the Renewal of I deas or the Exercise of Muniory w. bots is impained weekt the Brain.

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of Contraction. It: If a Ligature is made near the Brain, Lan Impression mende un is excited. 5 we I then see Information excited in musiles when the omhorfing and made our houseles in a difficient part of the Batz. This don't define an any Connection of homes but is oursing cons ly motion communicated from the Brain that we all fympathie and made. Bi De Betten find Persons com: aplain of finsations when the Limbe in wi They ful it has him long cut off. w: can This depend on? In it thows y's finning : two & funtian him are derined from y: James Brain. But to all these Conque = munts dame Object & Lay that there



Contractions There are animals who live & exercise Juns ation of outraction who have no Frains or very hurlind Buco. 15 this I would another that the argument is Sounded on Jales Facts. many Isperiments have shown no Brains in thouland: : mals in w Doffaller has divised its pres : sense. Nout independant of this, we must not comfine Bur hotions of Brain too much it werey beextended all thro the midulla Thinalis, & difficult fruits of it may be of more or left four equine in diffirent animals. Jense hon Work. : two and not only confined to y frain lent the Understanding also. This is wishest I from the Brains being the Origin of all the newes, 22 from Ly of the Jenses being

the state of the state of the state of W. will be where the will be a first the state of such minimum to have to 4 0 An There we exercise their this dieser . It is ini and the the the second An me plant many the many that we have and the same of th of the to the state of the state of the second 2 des 一年一年一年一年一年 a lu ust het wenter du toter of france. The factories of the same of the same of the A Fo and the feet the said

Montraction Jeated only in the Read. as toy asso of the Intillectual Fraeulties being left unimpaired by Losions of the Brain, I think they are liable to great trallary. - an Injury of the cortical pulftame of the Brain we know does not affectly. understanding, her even slight brounds of but an did of the Main. Besides amant to doubt the Frist of many of The Faits addressed. - let us now enquine into y: muchanism on is Contraction depends. a most difficult fuligut! De abounding w: Conjectures w. thour its Abstrusemels. Involed rejectable such of these conjustures w: duplows ontraction to depend ony hotion of

the 'uies ALLY SEED THE PARTY un the destruction of the same Fr C Brain towns were the 240 200 2 11 hors 10 10 - 10 10

Contraction The Molor as Ligatures on arteries Jul. · Sinewhy demonstrate. Su D'A Hallers 400. even after the Heart is cut but from actored. This confirms w Jam advancing beyond a Doubt. If themany buefrom power is heighany to aut for ontraction it must come from the herves even Those who Suppose the Joul to be sestion in the Muscles allow this. Thysiolists have imagined y the Influx of 4 them of the herres was insufficient for one traction, but have called in a freuhan Organization of the Musiles to luyorit. But this will hot au: forthalignee or belocits of museular motiver.

N ou nu a Fras , it 1 thes itis the Other ce:

Contraction Think it rather Depends whom yother of our herves bring propelled into the musiles, & overwining & Resistance of y Other w: always coveres not only our muscles but all Other Elastic Bookies. - a Doctrine Has first delivered by Jin Frank henton who explains Elasticity by it, begives as exact Calculations of the Rasity & Marking of there deveral Others. The Spiral form of y news w. Dr finith has lately demonstrated sums to favour this fullwrithin. But the how are musiles er citis to Pontraction when cut out of the Hody? to this we answer y! the Other of our henves in a very Plastic

(a) to this we may add y: all musiles to pro how an alternate Pantraction and Relaxation w: may arise from youndown ay a of the Other to restorately to an Equili: re Chin = brium from this we aw fory bital 1 the & Involuntary motions. Feill

Contraction mobile State, & when furt in motion by a ftimulus applilied to y muscular Libres reacts again & thus excites two: tion. Besides the Other of The Libres may have duch Axiellations by thurseli as to produce this motion. Here we must Day a few thing on thinuli. all stringli are Chemical or muchanical. the action quito: of the first defrends on the Diffinence of y bial Feillations in the Objects it excite Faste beculiar to this selection in I a make peculiar to themselves w: her breillations aurding to the diffirent hature of its Mists. But how do Much think act to in thou Pases where there is en Impulsed - Why as Repellents only. Such fting : li must her sharppoints & Haufore act by removing the hervous Filerils

and the second hunis der 1 plan lue

Contraction from an another or by the Otherthy contain going out from them into our houses at a point & thus give he pain. - But how do Jedatives art? This is a difficult auestion. Hormung supposed all fidatives mixed with her her woung hind I thus Destroyed its mobility, we have devent Chumical Analogies w: confirm this but I de many Hyertiens to let, & Therefore am willing to Descrit it. I think a better It planation may be jiven. We just how fores unit that sharp point to thing the added to the Other of our hurse. now may we not presume lihuvisa certain July tames Senhas Ledation Mudicines have a fromer of all tracting this Other? we have a strong buralogy to confirm

""但是不是我们 due the some on the detical ratter goding the plant plant Let wind a facility of the property of the same lives t were the state of the state of land Reflice the and there is the sure of the s two all files times mention the h the be Mesthery I'd Martin hill . . ofea there is all the a left in the same from the wh when the standard of the city ing 1 Marie H Rose Hill Mines neal white may the private our with - an

Pontraction this in the Communication of the lestine matter to mon = Elitrich. Let us now enquire into the dif:
-firent flates of muscular Fibres. I'm w down ffrasm defrend? why en two fauses. i on too quat an Alegion of the bis here ca, but whyst the remain so I cannot say. 2 an the Strothing from theing taken On from muscles lying too long in One position. I shall hereafter Sheah more fully on this feeljut. - En widoes forvulsion deputo? This has been confounded w: Thaom by Di Zembrus & Others, but Ithink them epentially diffirent & dopind on difficent Causes. If marseles art w unusual Fores orbelocity we say they are woulded. - if they remain long in a contracted

and the section of the first The state of the state of the state of Mis. Range Con I was story f ower the sone tilul CA any my for heid. t del

Contractions fitnation we say they are affected with asm. a What of Finsion is the quate Viediponition to Convalsion. - This Tension is called Jone or tomi hower, & dependapon an Zgu able Dis = tibution of the hervous orland. ofthis by any accident does not preso enoupon any part of the Body an Atomia is in: : duced. His litonia differs from l'alsyin not depending apour Interruption but on want of want from of the this hervea. Sefore we disculo the Laws of the hervous Tystem we shall give a short Mecapitulation Here I would premise wis rught

ation itara

Recapitulation to have done before by is that all the Thonomena of hature are to beespl? Mechanically under its difficult modi: fications of Pupune & Simpulse . When retarded the Inogrape of Philosophy much by restricting our brotions of bushamism. - the Confruoeulariano have endeavoured to ace: for every thing from the action of hard Bodies on each Other, But later Inquiries have taught us to call in The ation of Subtile Elastic Matter w: evolve many Phenomena in hatung hitherto unexplained; as the Theory of Hutwiit - Magnetism - Light - Gravitation de. Vision any Afairatical Philosophico

hu But It /ha & the Book for the we

Recapitulation. have ever hur fond of calling in innaterial agents which have tinded much to which a free Inquiry into y: Operations of hature. u her Deus intersit ble Hor. But to come more meanly to our fulject. I by the huvomotystem fundinstand the Brain - moule a Bhlongaton Thinalis I the herves terminating in all parts of the Body Logether wi all museulardribnes which are endowed w: The Samefunibility I pefulo the same Other that is humbian to the herees . from this Minh we may infer the toruscles have y lame frustine as the herves. Ind he said every part of thereons

\$ Lecate the the server tim uni 1 all the wife with the raited asies of the president of the farm 1 ister in Anh in form with the said that we want ome of hilla

Recapitalation Tystem was connected Which we infin from motions being warmanicated So wir formly all over the Body by Impressions quade on One part any. 3; all bettions are carried on by Insting excited in the Other y! adhenes to Bur hervous Julitance. This Jinfirmed from existed the Boyimproping. How Brillations can any be lim't on by the motion of some Substile Finis in our herme, for Buillations can any act by oxacting brief z lations. This Other is not only present in our herus, but is always in anexcited Itate, Somewhat analogous to y Itale aumentated in them to this analogywe

utw car this State of Excitability in our herves is Kept-up by Heat no tha we shale show inone Sully hereafter.

Recapitulation must add y: it is not any in ance: "etto but Elasti State. (ei) 4: The hervous fystem is distinguished into Liharts, we have each of them Diffinit Junetions. the 1: Difference consists in it Fabrick in being awanged in distinct Fibres Sumetimes however amanged I mixed w: aach Other. this therefore in: = cludes the Midullary part of the herooms Lystem. 2" under this Lever Head Jurul induse the house wi consist I the same matter as y tudulary hast, I are disposed instibres. 3: includes the house Denudated of a membrane w: they have in the 2. State mentioned. - in this filmation they arresposed to be acted on by the Infulse ofestimal

and the same of the same 一个一个一个 his 2 Airth and the state of the stat w fran an 8. white the transmission of the same of the is con tole - the The state of the s tum. The second of th to the Willis

Ruapita lation, Bodies. The house here then are said to be Organo of Jense . 4: includes y: part of the hurvous from Fibresw: and mudated of the munbrane y: is common to them, & So attather as to be capable of lotinsion & foutaction. - these we may call the moving he: to the former w: are dentint Is tramities Let us how enquire into ther defficent functions. to the first then Tis, the midullary part belongs Thought or the ations of an im. : matental principle wi is connected we the action of the other ofy: Indulary fulritance Only. The foodants in the Brain alone Ino Where else.

165 The major A for Perves the & Carried Contothe 3 du to this - 20

Recapitulations This was proved to you at full Lingth before. the Function of 2: hast of the hervous fystem oris the himes is only to formation wine ation between the finsorium & the Ithemitees of y: nerves Moutually. The Function of The 3: part big; the Organs of fine His is to communicate finishing to the Brain by y aution of external Bodies Upon thum. we may addalso to this certain Impreferious med last of the internally by the Cution of parts of the Body as are exterior to the humos. as the boload - or an unusual Infoliated Cution of the Blows befuls or by estra neons Bodies Whether introduced or genty rated there. I mentioned formerly

where the Market Body asa the de manual as and aut i as the 人工之一种社工 aut Til

Recapitalation That Imprepions were either Chemical or bushavilal. The Chemical youmany remember we ned wed to the muchanical It called them only the unknown freehanist - Hwe admit Simpreficens altering The State of mixture of aggregation in the Fluid of our houses we may then latte of to Chemical Impressions reminde also. the parts of our Body are all of them centrent, so y. out whole Typtim may be considered as a Sentient fystem. Summinfrepions act equally on all fronts of & Body as the much: Thin use. form again act more from fally on husaular Fibres Sunta as formfright - X

dir last ita the Mir there a 111 Constanting to

Recapiterlation Heat Hold. But there are dune fin. - dethins w: can be excited only from impressions made on particular harts. This is difficult to be ceptained. - it may defind on the greater on lefourdetherdation - Teprogram Houns won of the furtherness which one as win Their giving diffirent finsations. further There are herves commeted wincertain, hepparatus in this Firmination, w: qualifies them to admit the pupulse of certain Bodies any, as the Eyenight - The Law found & the like of this by Impression that Life is first brut an the Ihope of Chall prove that

The thirty of the same of the destination in the country on the form The and the series the series of the street of the series alte . the is different to be sold as in interest the state of the state of the When I have the wind the said the said to Moth the faction of the contract of the And the state of the second of Miss

Recapitulation 93 tt is ley Impression only that diseis maintained. The Funation of the his part of the Type teur big: the Inuscular Fibres is to desar as longano of finor to Motion. as Organs of motion they aretidisandated of a covering they had in the houses. 2: they are from their Sprial Loren & this attachement to Other capable of Lytunowind Contract = tion in common wi all simple Clartis. 3: They are all in common with Johns in a State of Tension . h: they are in a State of Freite Blastickow

The state of the second the 9 Wour or ad y Star the state of the s the state of the same of the same fun or leda Me of Secretarian

Recapitulation, Hus differ from Simple Clasticho, & abound we an Other on the librition or addition of w: the action of waters I stamulants depend. Having finished & Recapitulation I shall now proceed to speak of the 4 maral Lawy of the heroons fystem. I I shall Sheah of Jensibility La Smitability. all Bodies w: act whom on produce Jensations, this Capacity of having finsations is called finsibility. - thous boris wi excite motion, are said to produce Initation, and the parts expable of this are Naid to

moa his , 1 2 2 There the da · Lon the ay he of

Laws of the nervous fystern be posses of Initability. There can be no four traction without finoation, & it is all in many ares exactly proportioned to This Junsation. See Dingaubius \$190 where he says Irritability is always proportioned to Junichility. Ju also 8174 But this is by no means universally true, althoit is difficult to pointout Where they are to be distinguished. - The Jame Pausis do generally produce The same Effects, but this oh: be used W: Some Limitation. Courses arenot always simple, but often comformed, I the Effects will always be according to the thatune of the Cosuses.

late accorded to the and the first see Sign about the telling about - Im oilih

Laws of the hervous Lystem fortioned to fine atipm, but may be altered considerably by the difficunt Hates of the Nerves on w: the Impupisono are made, Illy the hatunt of The Simpreficour made. hence then a Leonn dation for Disting wishing finseilility Worthebility. Justher 1: Contraction from fins ation for arisis from bolition But we Esten see Southantion without bolition. - 2" we de finoa tion without out testion as in fraralytic Limbs w: dependron a want of Irritability. Contraction 3: software the may be from a want of

nion ring res cohn brant yo tim & fri.

Laws of the hervous fystem Jensevin the muscles the bis herved being given. This is illustrated by taking up a light weight lifter having bore a heavy One. a trimbling and brahnes lwill always in this Casele felt in the Hand. There may be grant forms wi act on the whole Typ tim w: act alike on finsibilit I for tability. When this is the Base I call it probility . When there is a Defeat in both Jeallit mertia. - But when external Canows act on the Sontient frants and we day here when the points are too linkint, y: There is an trup of funciliate. When Juna hour are dull & not proportioned

rita cas a land a young boman Whose System from sundry lauses was proposed of en breef of Initability. Vanswieten Com:

Laur of the hurrons fystem. to Imprepions we day there is a Hethor! Mont estimal Causes action The powers of motion and so as to carry it to an trufo we call it mitability. Where it is Defeative we call it Toopor. The Base Jan. - fevictions was owing to an krufe of finishits but of firette. " bility which finfer from the Come y: wins used to her w: was restoring The Linsein of her fystein by Bandages. Thale now Speak falled Law of aurifystern big: the power so much Observed in Bur hin in allummy

a sile-to tross

Laur of the nervous Tystem. The Iffeets of Cartom and the Iffeets of a Pantin ance of the fysternin One for Hate, or of Some new Law on actionale punding entirely on Justam. - Ther Ifferts when indued one called Habit. Johale consider thise as affecting in finishility & 2: pritability i fonsilrlitz, he shall remark 1: That all Junsations are more or less acute as they have been continued for a longer or shorter time. a let ingenerous French Sin lleman found means to Fishing wish Jums from Then flores in by their shining in the clark which her did by

Lance of the Meriner of the Ment of the part that the the 1/2 lin the COME ! and Come and the state of " wno color alle serve ther 1 2 12 12 Lung old a ut i

Laws of the hirrors fystem winfining himself for some hours in the Dark before he viewed them. - from heme we learn y our finsa; two and no measure of the tate of things around les espeirs this is exemplified by the finishing health (old diffining awarding to the Degree of hat in our Bodies. This in my Opinion Juris his the Strongest Engument lig: the frigorific as well as the Calvija particles. The Diffirent prostimo of Heat Alold altho but difficent Degrees of the Same Guality serve

i as both Heat & Gold fordure The same direct fins a him but diffirent

Laur of the hervous System. further to illustrate to us the Cubiting Connection between Impreferiors & In Juno ation. L'aguable Hedisquable fire finisations Often arise from y Same Impression as in the an of light. - But this will Often depend whom the Itate of bur Bodies, So y: The amprefic : one may in Our posse be said to be relative. But there are Other Imprepion which are absolute. it is of great fine fortame to distinguish these two kind of Impressiones. Heatallold are marked by the Body awaing to its own fins ations . thus all Reat

- b'. - Acc Les wt he do 一年一年一年一年一年一年 Re The sing the - Marily \$ 80

Lawr of the herrons System. burnes Umany buyons 62, & all Told excites unleasy Juns ations that is below 82: Abrolately Speaking, But the Firsibility of the Tyotem may he do attend as to render these depres of Heat & fold relatively painful. - Thus a teran who has long turn wird to 80: of that full the funsation of Cold if the Heat falls surdenly to 70: much more than he does to ho lives in a Climate when the old Some times falls subdenly from 60: to 50: - hunewe des The

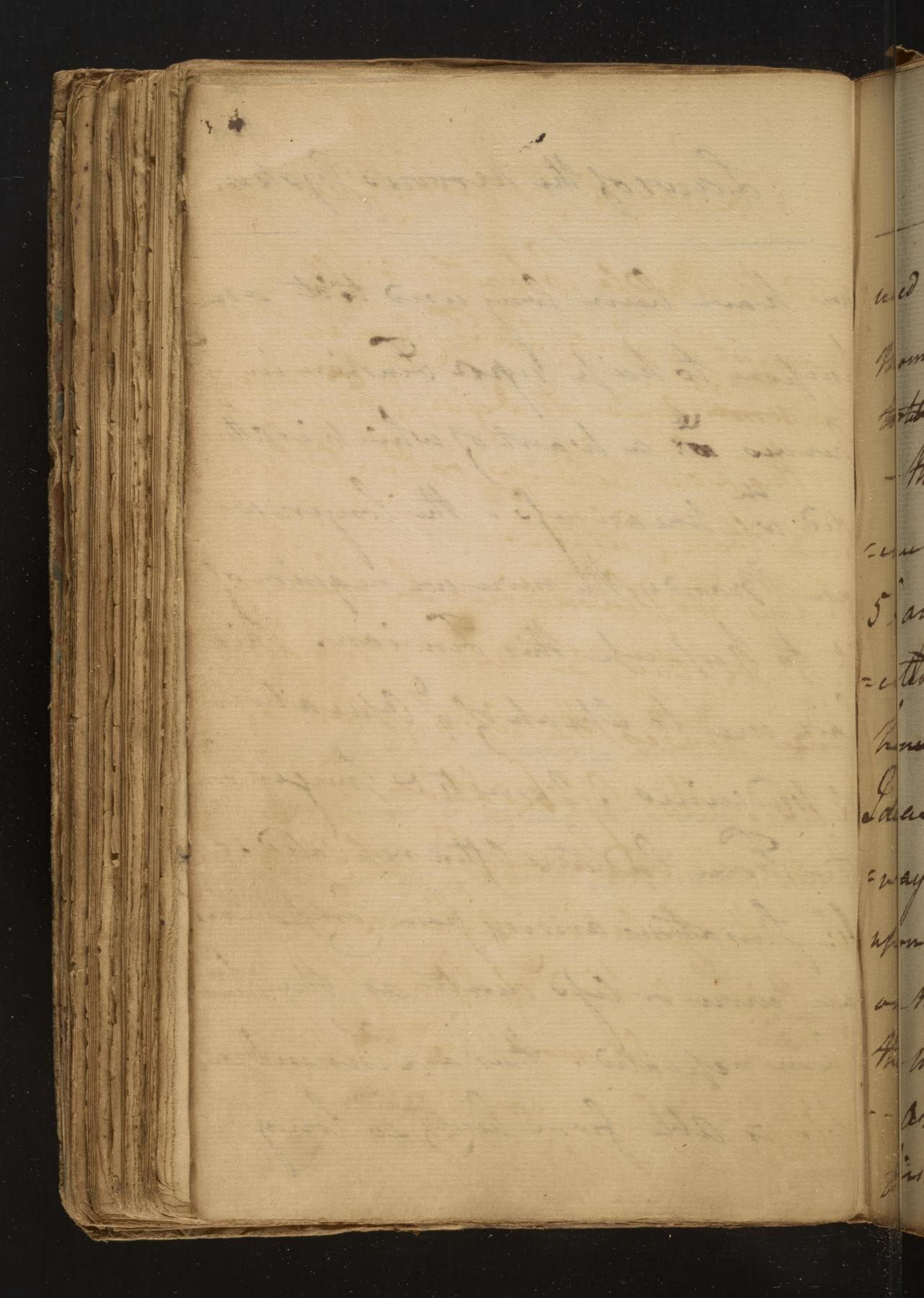
Fill - Ver Ww will [al big: in bring colder ucly assume a birtue if y : have it not " y: Mornoter fustom Who all Jense Doth eat 460 " of Habits wil, is angel yet in this Refrain tonight to the next alitinence, the next morecand "I brater our even the Devil on thow him ! Thaherfusies Hambt

Laur of the hero Lystein Fallany of Di winting ham's Bb. · Servations om Spidemin Discases Who Supposes that Stippor: Dotring will hold good in Britain atho its Pluis ates differe de much from y: of freue: 3: Impressions humanne Elpouensible avording to this Olepetition. - Thus Sume Imprefrions w: are at first painful after a While lucome pleasant as in the law of Lobacco, - Spirituous Lignors - Odour &c. This admits of quat application in morale as well as midicine.

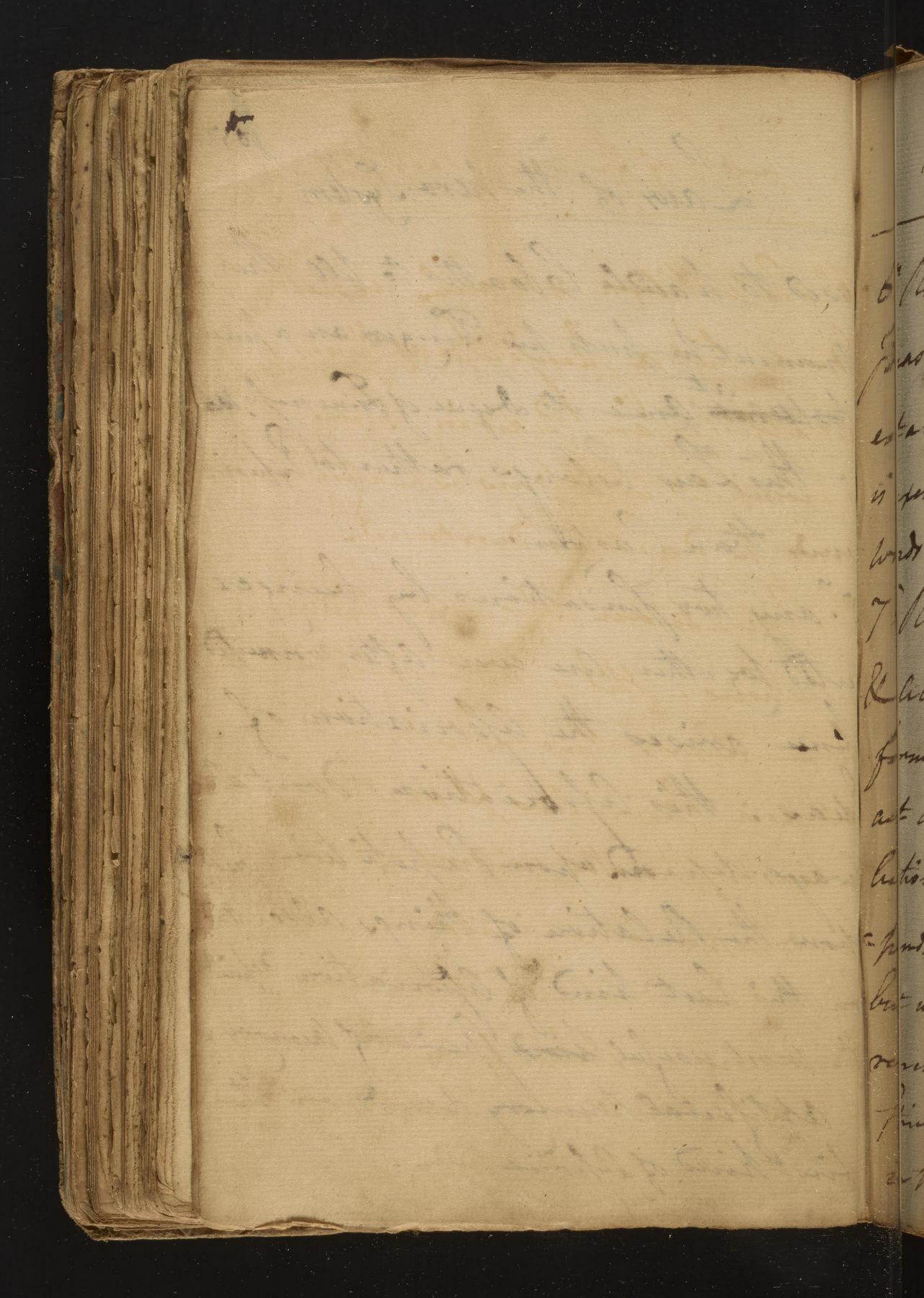
- Brandy humas hupany if

(cil this is a wise Law in hatur last & Serves to defind his from snamy of

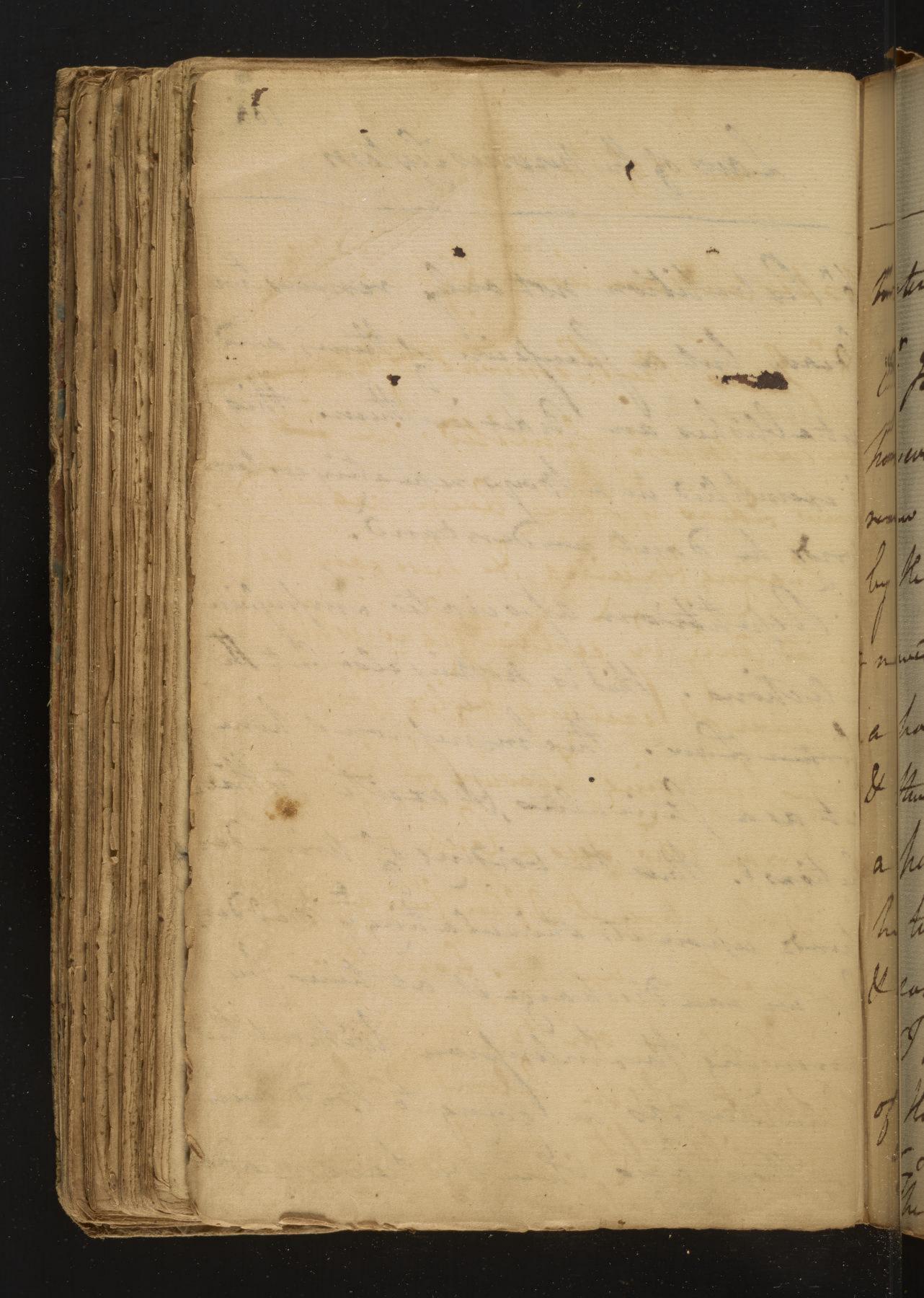
Lawrof the nervous fystem we have been long und toit an purpose to hap upa dinsion in y: perous a hant of which is atter-- did w: Une asinefo. The longer we we Brandy the more we nequire of it to hufs who this Jensian. This had me to Speak of y Operation Air Forme by huiry often repeated & as 4: Juns ations arising from Comparison an more or left out as they have been repeated. Thus a Linnen breez - per is able from hing so long



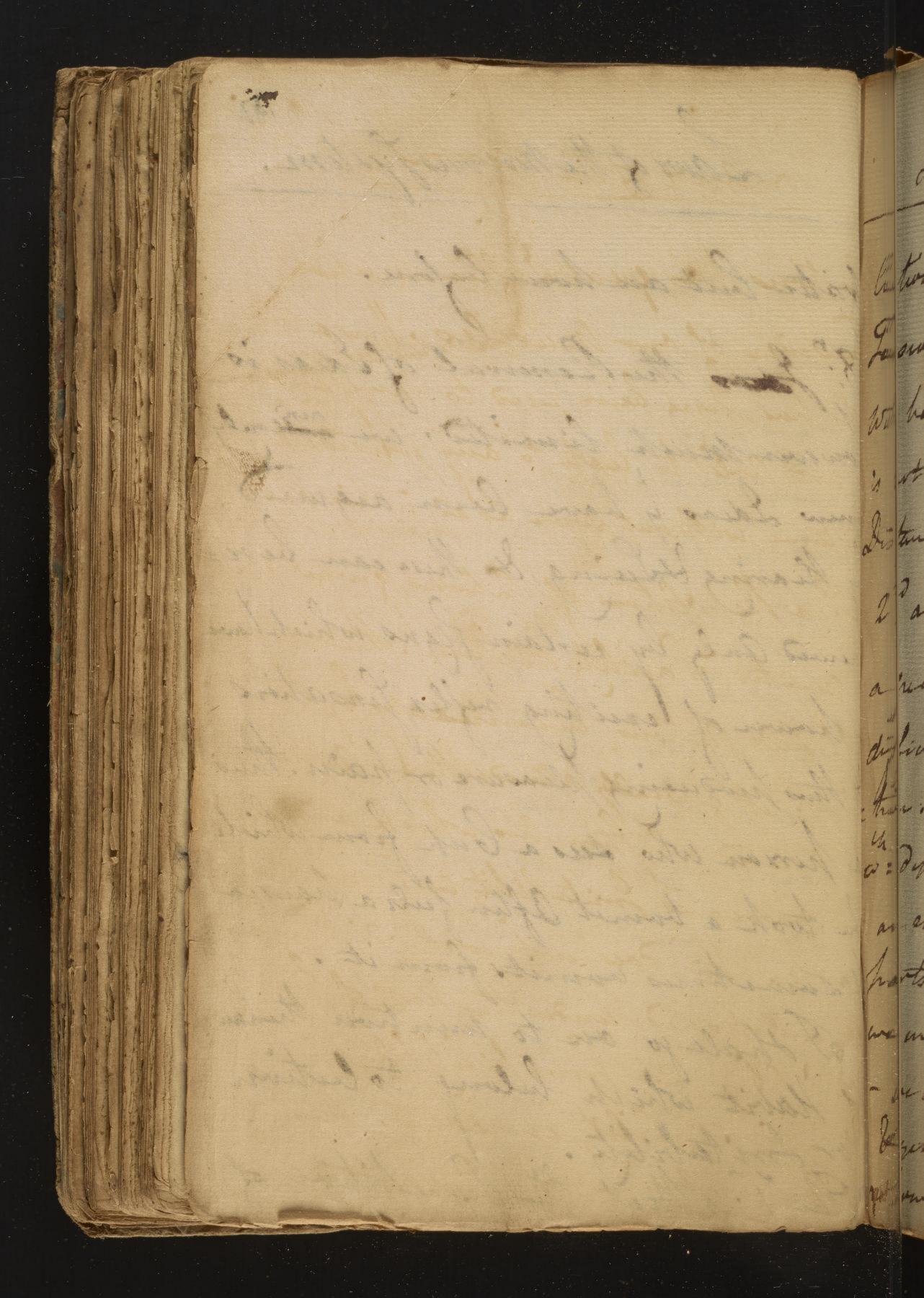
Lawr of the hero; Tyslem. used to handle Coloaths to tell The Moment he posts his Tringen an a peice Anterior and the Seque of Finency to - This Low belongs rather to Lylun: come than astohn. 5. any two finishtions by buinger. enter tog other line over lefter commenter. hence arises the appointain of Ideas. This afstriation dontal. ways depend upon Repetition but whom the Relation of things also, and on this last him of afforciation defined the most useful sind Their of humory. attifical humory depends on the first himd of afronie tion.



Laws of the horons Lystern 6" Repetition not only renews two Deas, but a fuerele ion of them, and establishes an Order in Them this is examplied in a brough reheating certain words he don't undenstand. 7. Nepetition afrociates Impressions & actions. His is nothing cloudent the former Law. The compression o hene act as a strumulus, Il excite to the lutions. Thus the voiding of Unine des hund upon its other alating y bladding but we can discharge it at times by renewing the Impression without the Thinulus, as in I going to Bed even in thou and when we have made



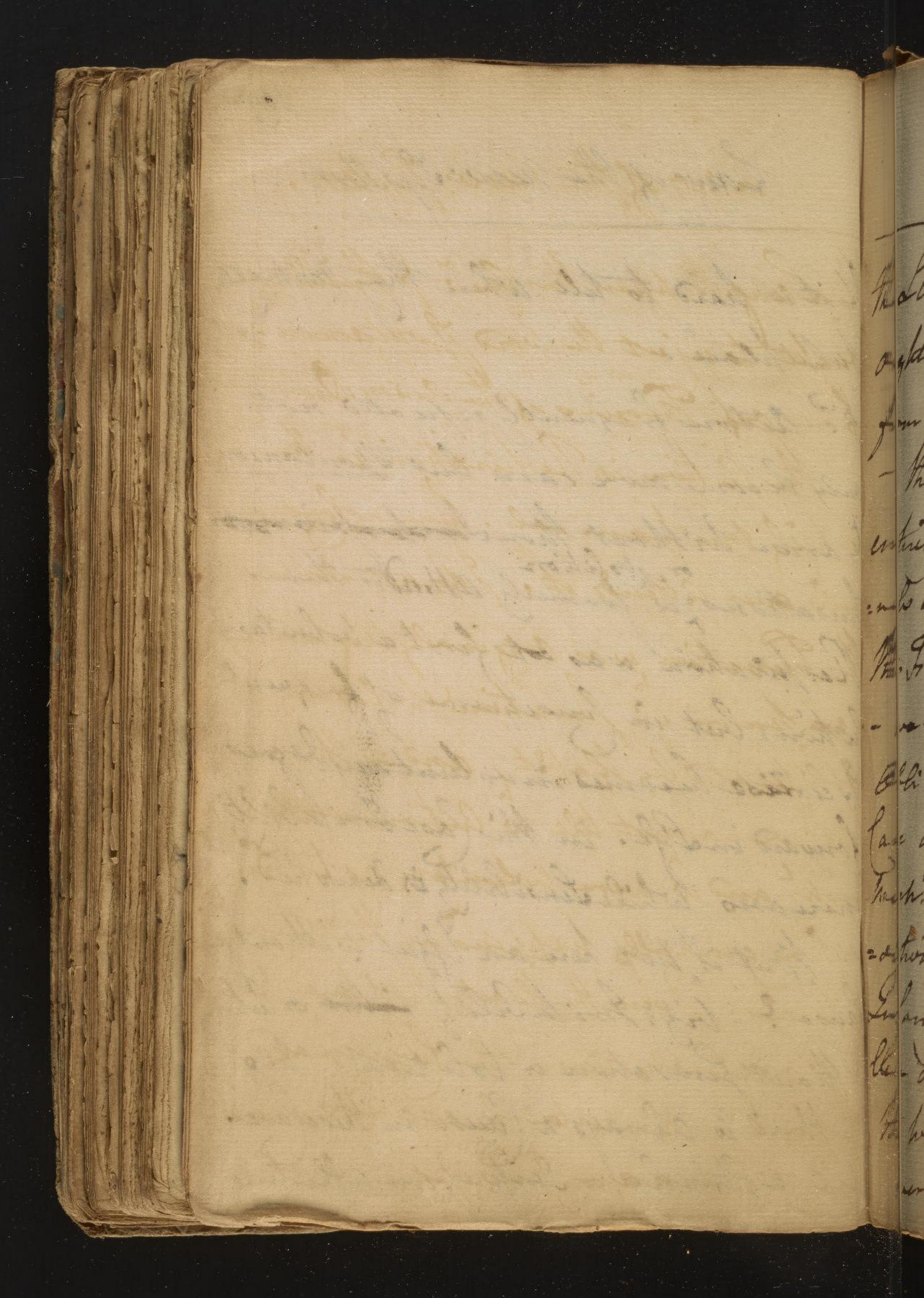
Laws of the honorus fystem. water but an hour before. 8: for the Clement of Educas is however much limited, we carriedly mun Eduas y have been auguired by Meaning Haleing, & these can be re: newed any by certain figue which have a hower of lexeiting reflex Jensations I thus producing pleasure or pain. Thus a person who sees a but from which he took a bomit Often fulr a hausen & sumetimes avenite from it. I shall yo on to mention thenany of Habit which belong to betive or fritability. The 1: is that the Republikan of



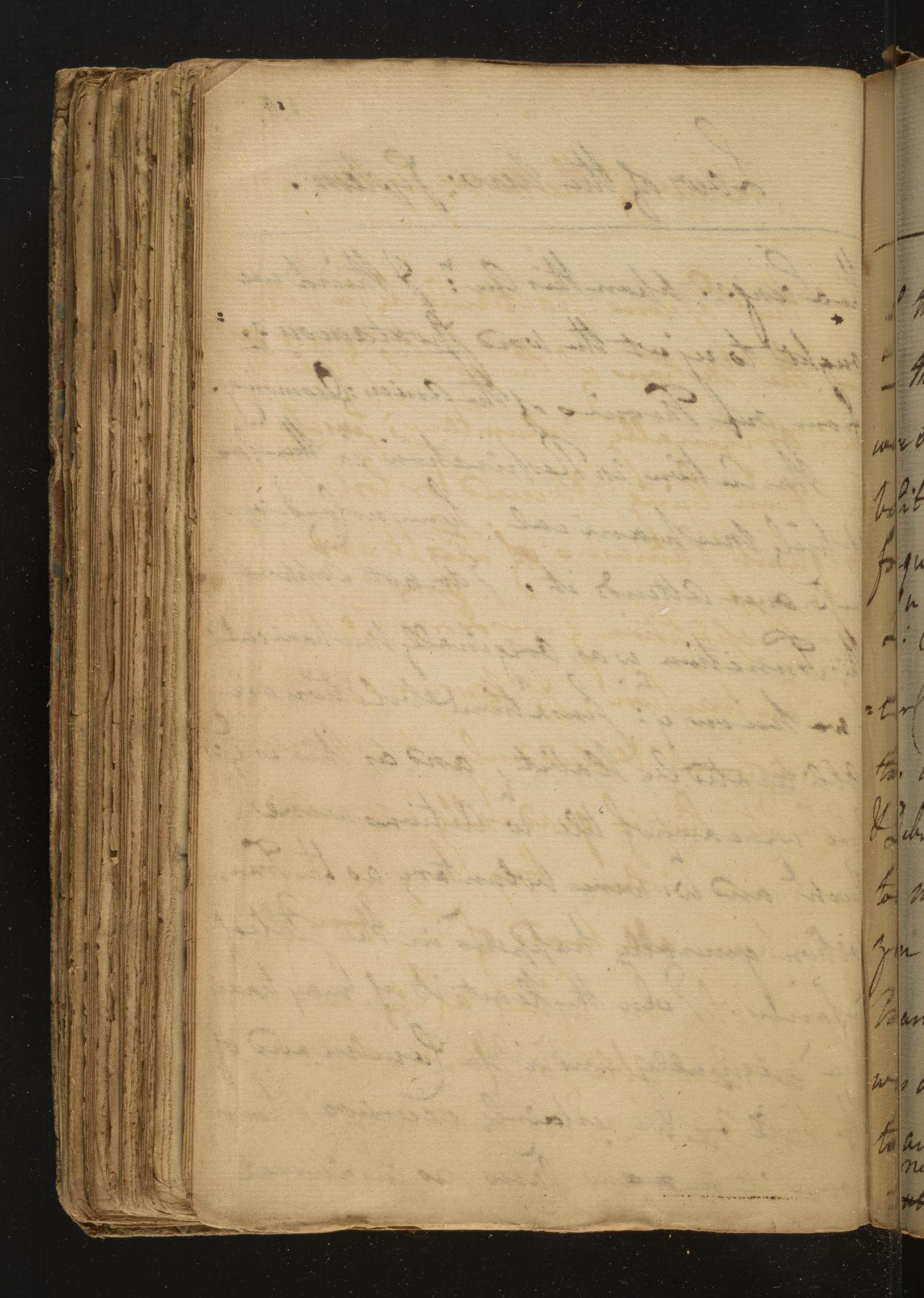
Lawy of the hervous fystem. autions has quat Influence whom the Jenouin of our bruseles. Thus a man Who has long hum und to carry awight I not able to leap to any who Duable Distance without some Load in his Hands. 2° a Repetition of Cutions gives no a greater or arility in them. The most difficult actions becomes any by Repeti: thin it generally attends that actions a: define an the ftimulus which arises from an encreased Smitability in y surviving harts. This does not contradict glaw we mentioned under the head of funitality. - un Often see funibility diminished Lystomitability enusand, they donot phoneum Observe any negular Laws,

L't. 50 Cop. 24 2 Livi Fusa (u) anti Zu J.m.

Lawr of the new: Tystem. Wit is hard to tell when they mutually tuhe place. 3: autions frequently repeated not only become more easy but Spontanions Larioe brithout thousand stantes them. Respiration was at first a boluntary bution, but in Consequence of frequent Hurise becomes involuntary by Somand in Life. in this Case Fritability eneraseo While Sensibilité is demis hed. - But is hot him an Uffeet without a Cause? - big: mitability itter or lution without fin ation or bolition. To. - There is always a lause in theselases, i e afteineles for Impression affecting

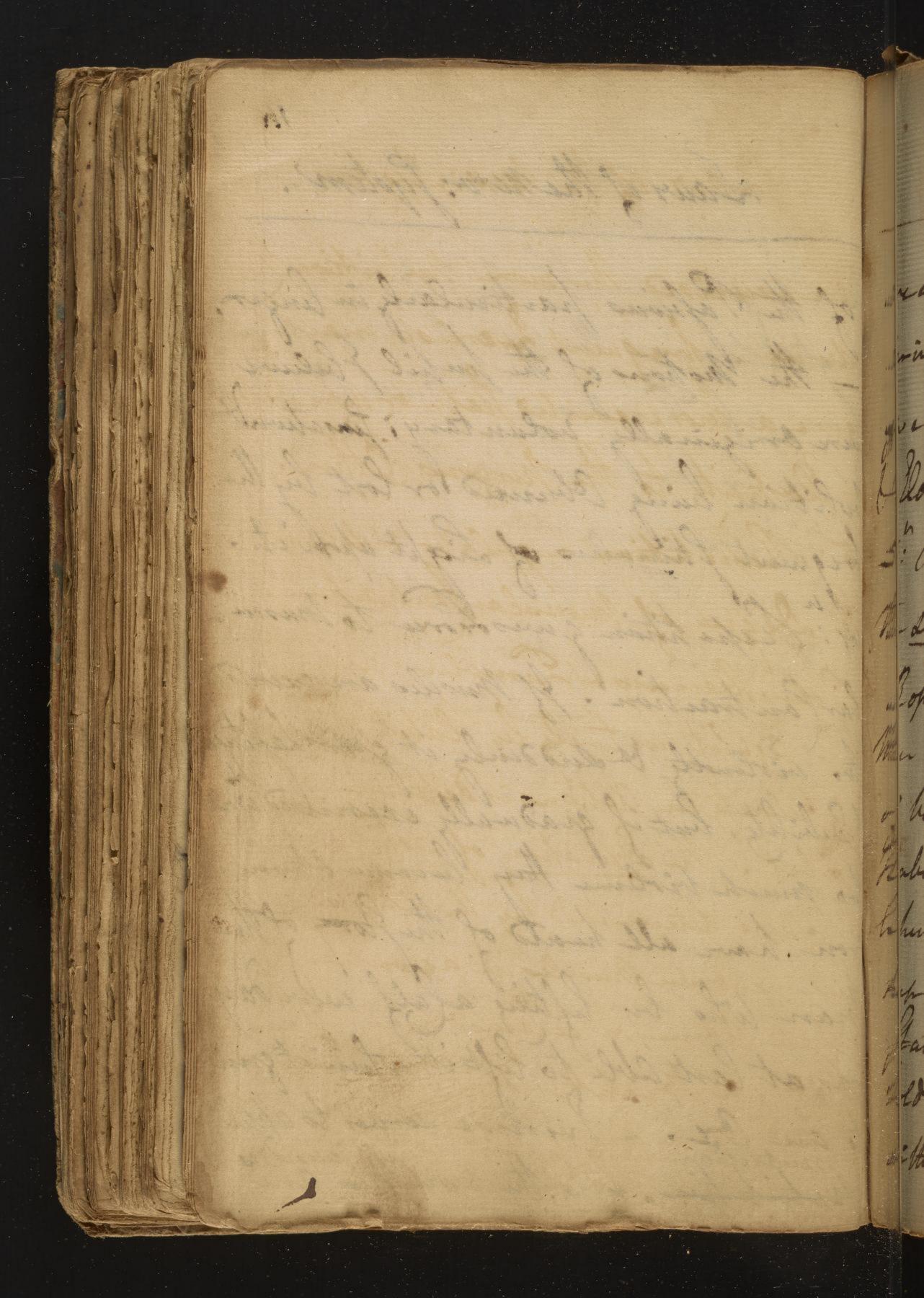


Lowr of the hew: fystem. The Langs. When this au! I thuish we ought to right the wood frontamous, from out Theories of the anien: Deomony. - The action in Respiration is therefore entirely much anical, huma nofondious. inele our attends it. I do not suppose This Function was Originally Muchanical - wa how y: finshtimbelition in Abliteratioly Platit, and as this is 5: fare we cannot till w: actions were Truch, and w: were boluntary as the France - dition generally happens in the stateof Infanty. John the Reart its of humany have them originally under the fammand of the will. We untainly excersion a former over it in many Cases as in Several

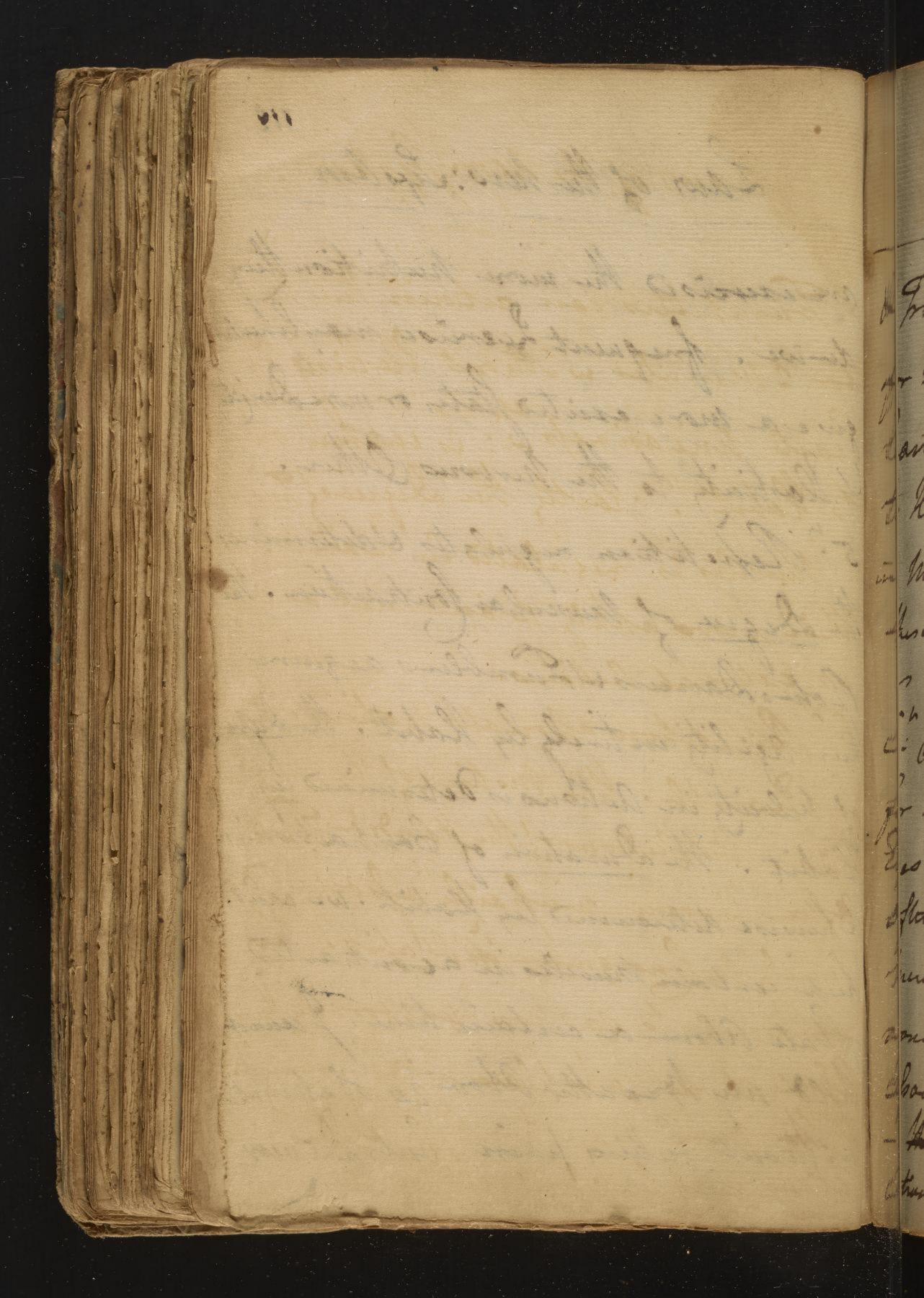


Laur of the nerv: fystem. of the Papurus particularly in linger. - the Motion of the public Fleliere were originally voluntary; furations bolition being Observed for lost by the frequent frimulus of Light whom it.

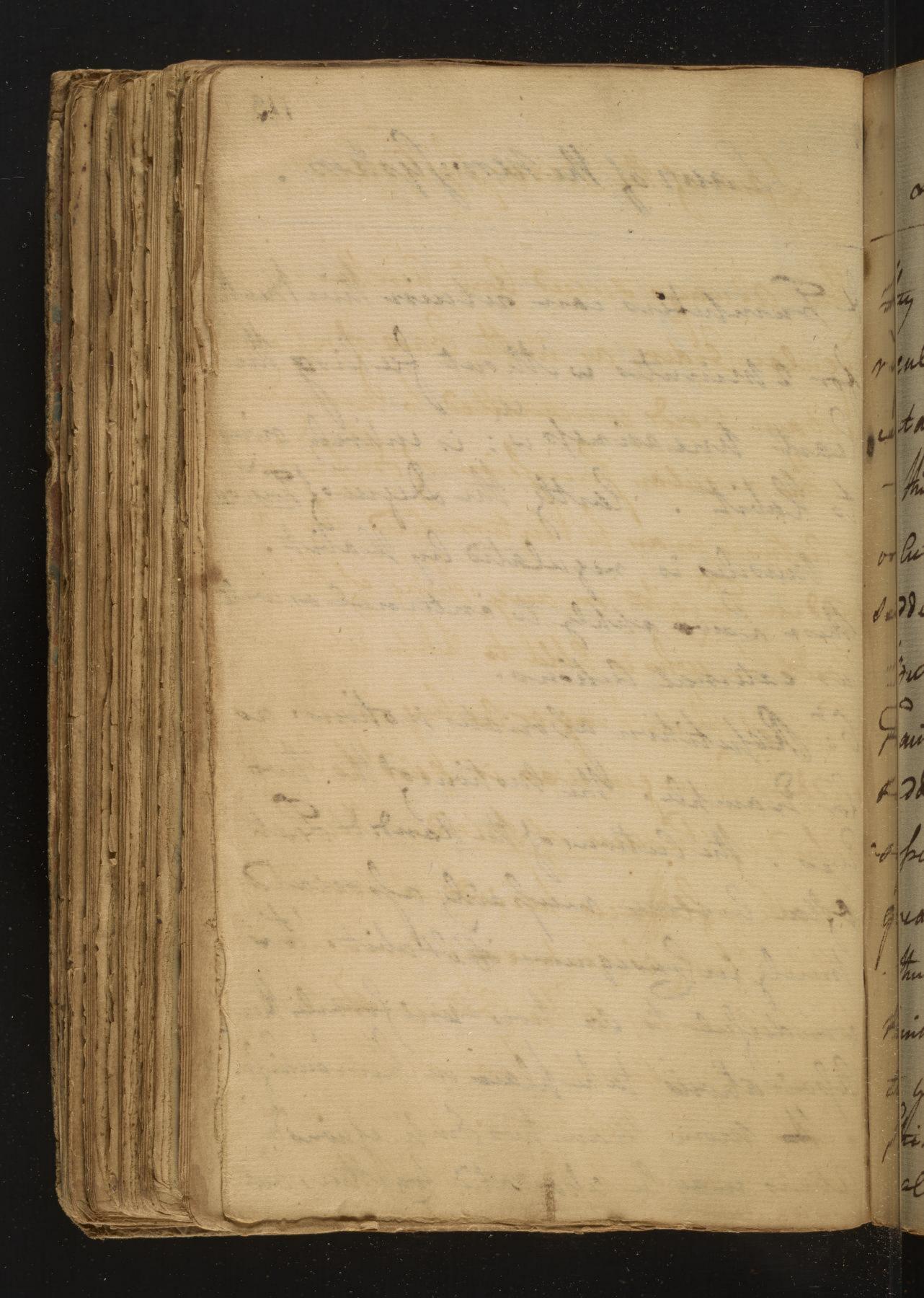
In Reps tition gives From to Immsen. · lar Pantraction. If Musiles are exercised two violently & durd duly it gives Lafritude Hability, but if gradually exemised wort too much birline they herome shows. you have all hearts of the tong of the man who by lifting a falf every day was at last able to lift it when it grew to an Ote. - Tyerise Server to apply musiles that the hour thing and



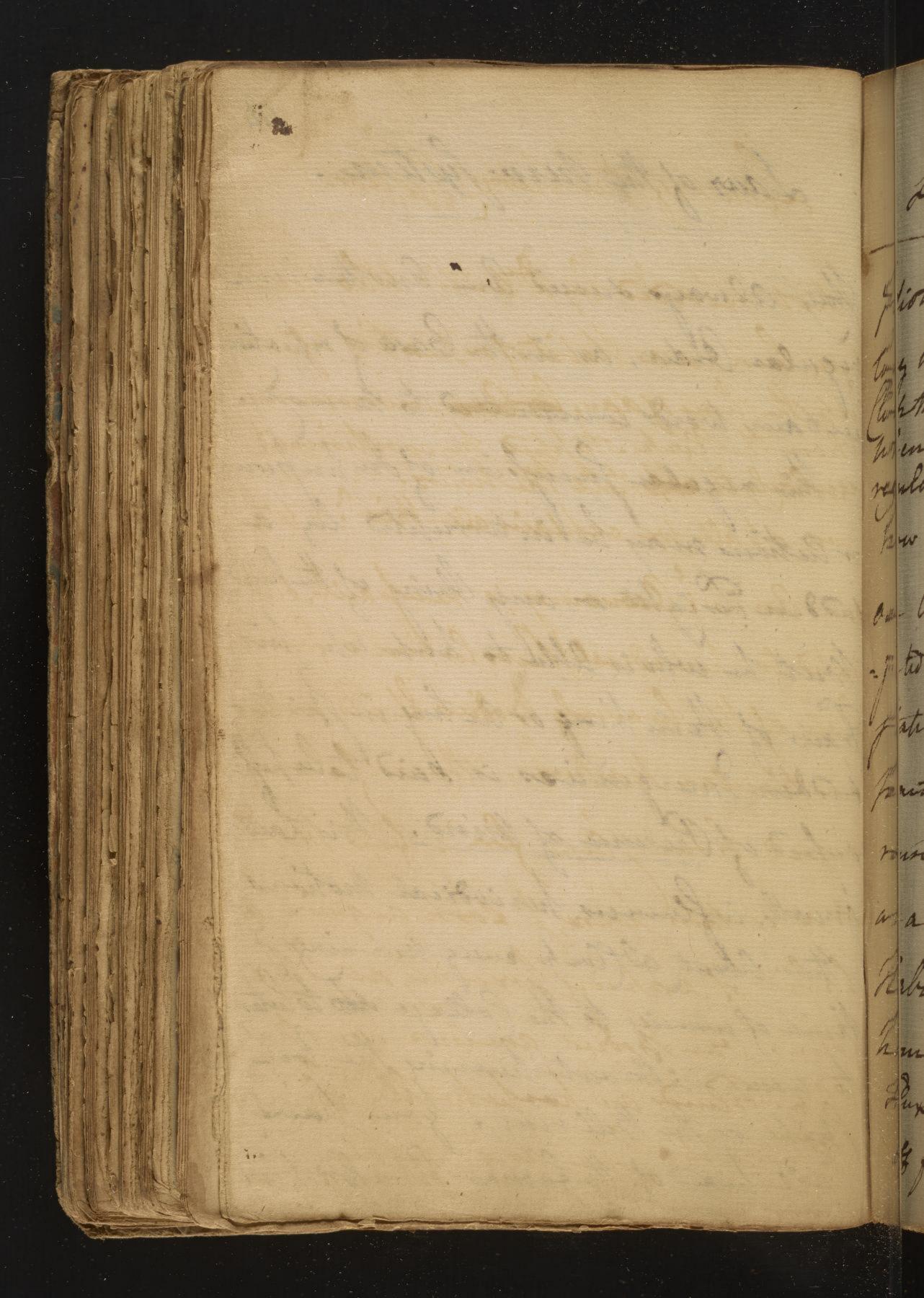
Lawr of the hero: Tystem are escreised the more hutrition they derive. frequent Lenise may lihuing que a more excites flats, or more density Hastinty to the heromo Other. 5: Repetition regulates Vdetermines The Deque of muscular fontaction. The Rope: Daneurs L'Enmbler auguire Thier agilits in tirely by Rabit. the Lynn of beloute in artions is determined by Habit. The Duration of Contraction is li huvise determined by Rabit. we can't hup untain musiles in a contracted State above a certain time. Jums hold my Breath about 20 of almost without fuling fram, but Divers



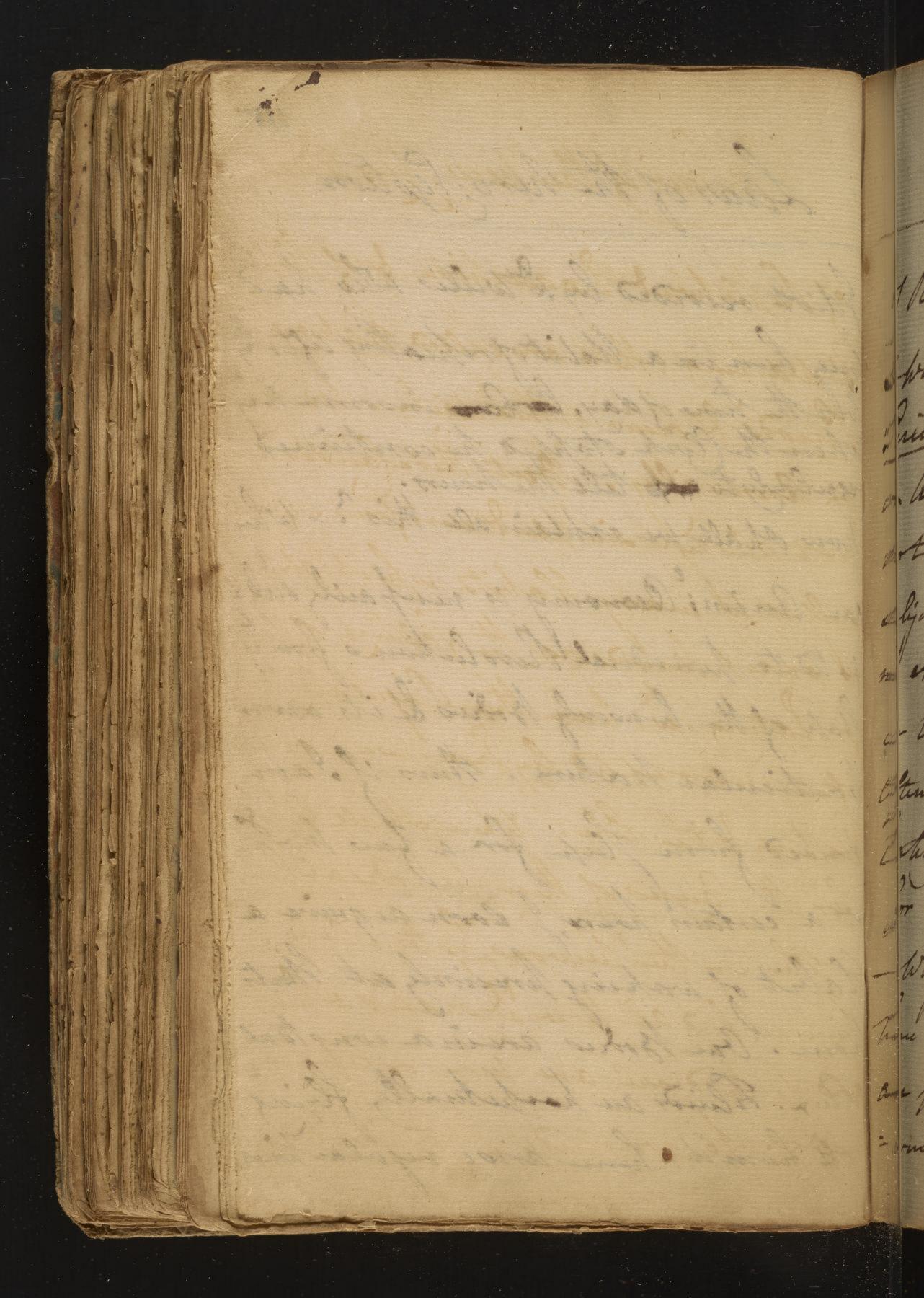
Lawr of the nerv: fystem. & Fundatus can actain then treath for 2 minutes without feeling the least une animely w: is entirely owing to Rabit. lastly the Deque of Insion in musiles is negulated by Bealist. there have ably to internal as well us external lutions. 6: Reputition afsociatio motions as for Example. The motions of the Two Eyes. The Cutions of the Hands & Leut Aften busing must any afrociated muly in Enougueme of Italist. The wonderful to see how uniformly these apoidations take place in humanhiles In mon than two omheluinod, ations may be aportated together, but



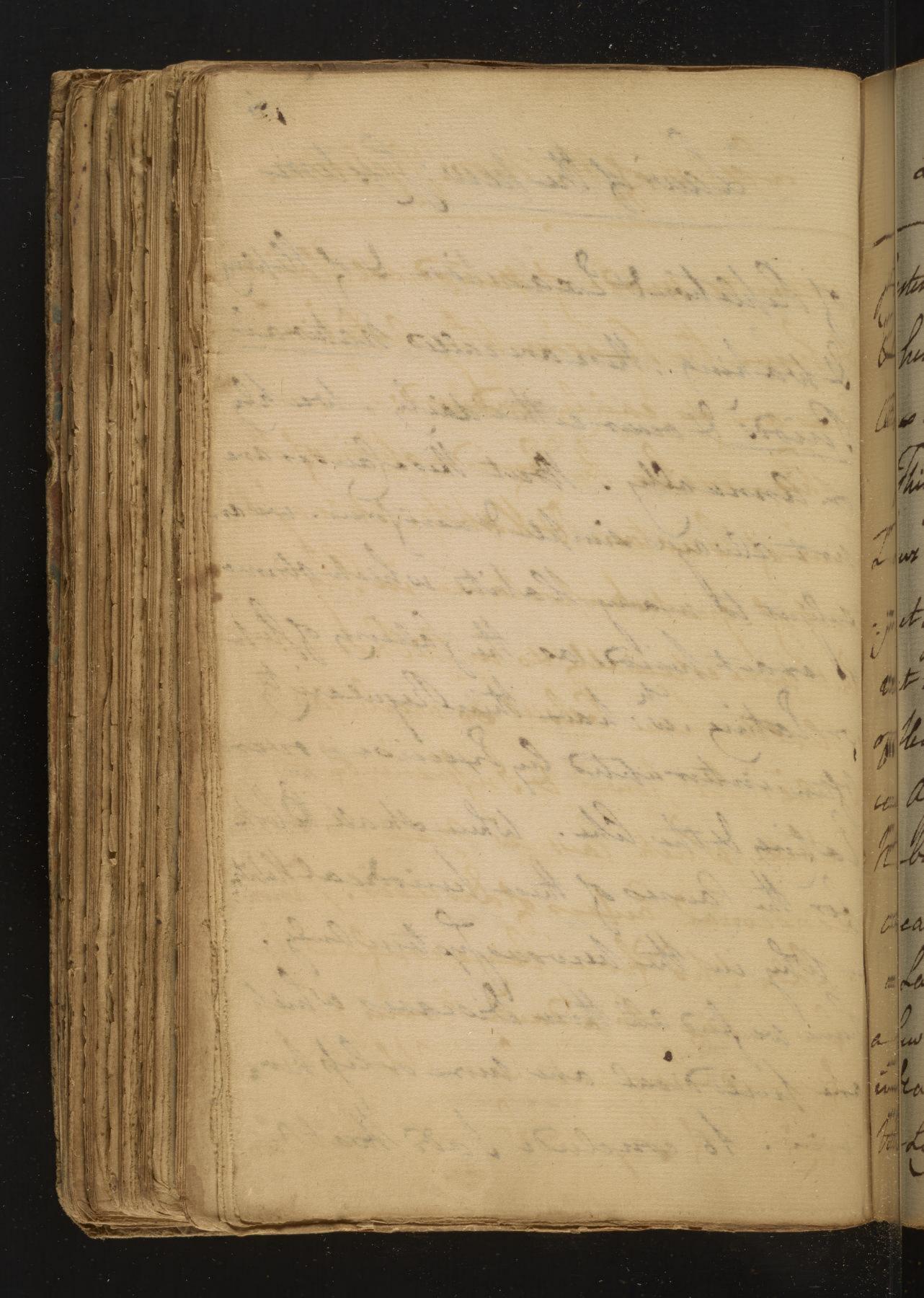
Lour of the herv: fystem. Hay always duced Am Another ina rigular Order, as in the base of repeating just ain bords committed to humony. - This regular fucultion of Impressions or actions may be linterrutated by a owd our Firight or any thing of the hind, Nout he who is ablet to his up his Frain of the in hing or acting in this te of sudden murginies is builtolupy! asper of Presume of mind. This Law greates influences periodical motionis 1. Thus about go Clock every morning of Think of coming to the College to tolutare to you with aut hearing the look This or the Belling. you have all heard the famous Fragonitive



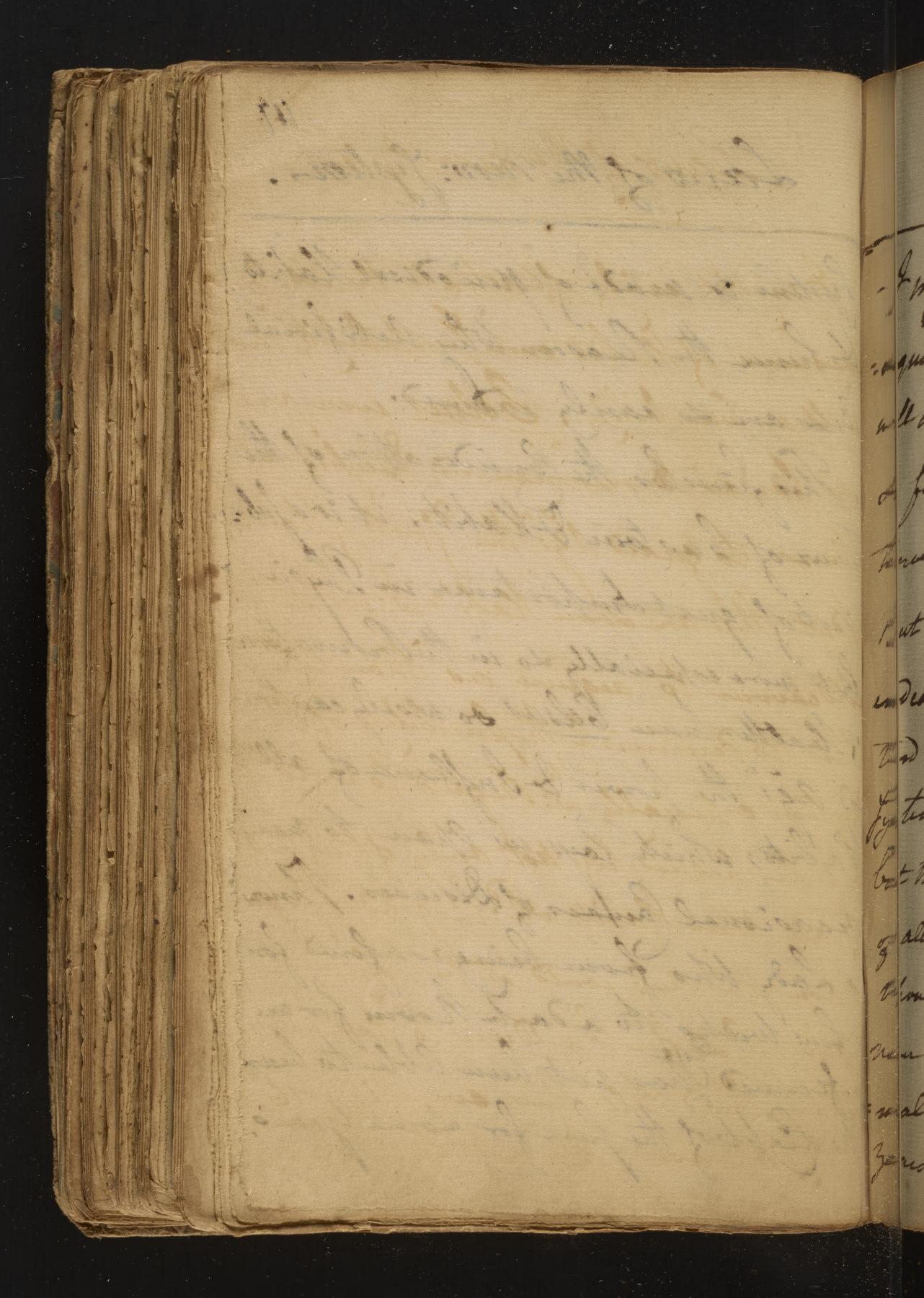
Lawr of the hurv; Gotten Idiot recorded by D'Willis who had long bun in a Mabit of representing lefter is When the Bork stopped he continued regularly to and tette the hours. our animi Cleonomy is murparily dub. · jutid to periodical Revolution o from y flate of the heaving brokes & its own particular hature. Hour if Jam round from The for a few morn: at a certain hour, I down auguire a Habit of wahing precisely at that hom. Our Books areina constant Flux. Flinds an hospetually flying of from it, hume arise negular times



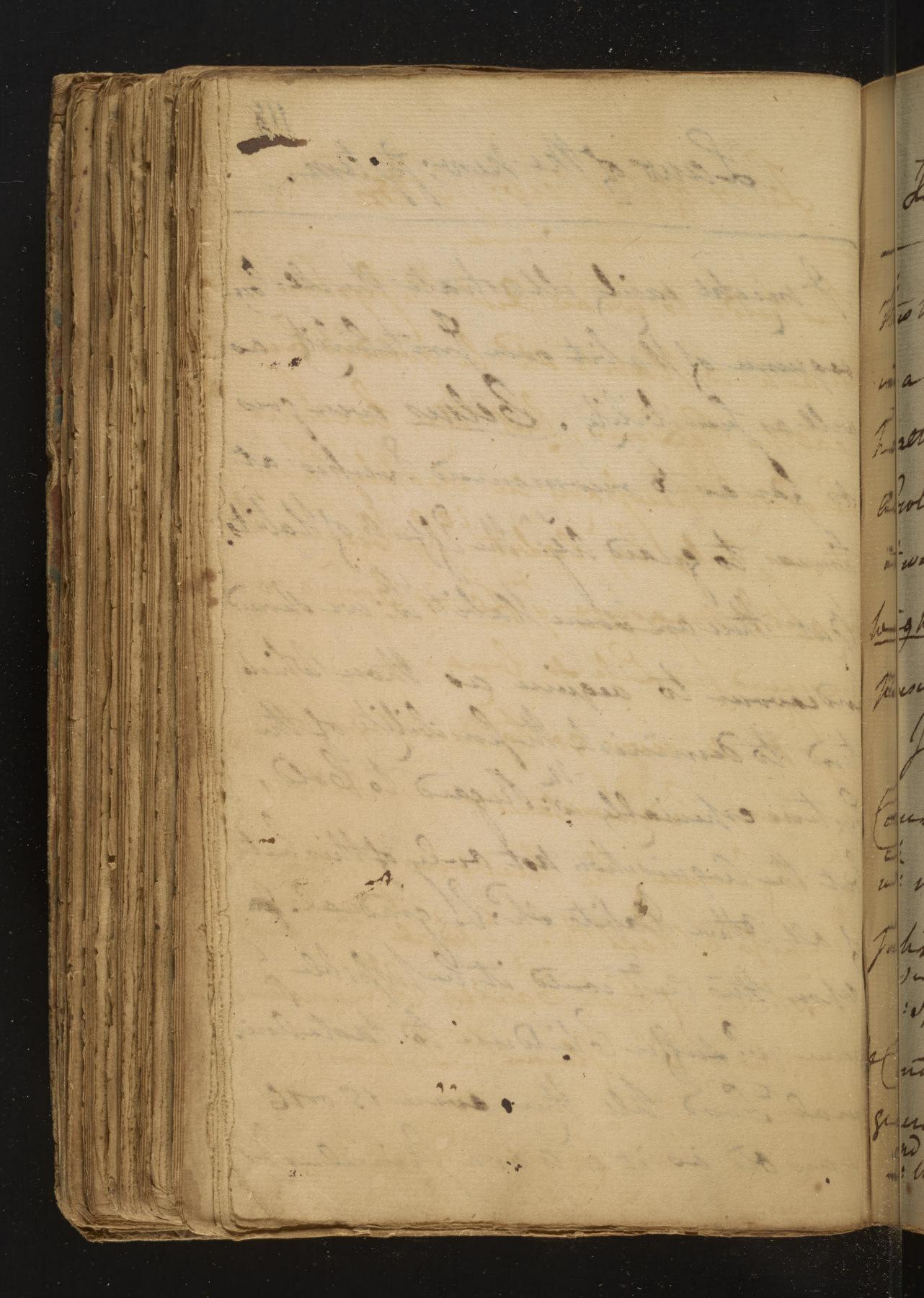
Laur of the new : fystem of Refeletion & I racestion, & of fluping Sharing. Here are called natural Tiriods & our either daily - weekly on annually. But therefauses are not always simple & uniform. we an Subject to many Habits which observe nd exact hision, as the falling of flush or lating, w: have their Regularity Often interrupted by Exercise - over Lating bethe like. When Shale Clook for the Pauses of these luniodical Hulity - Why in the hervous py terre any. Tume by find all those Discases which are puriodical and hum or lipher: - vono. to conclude dad Awatour



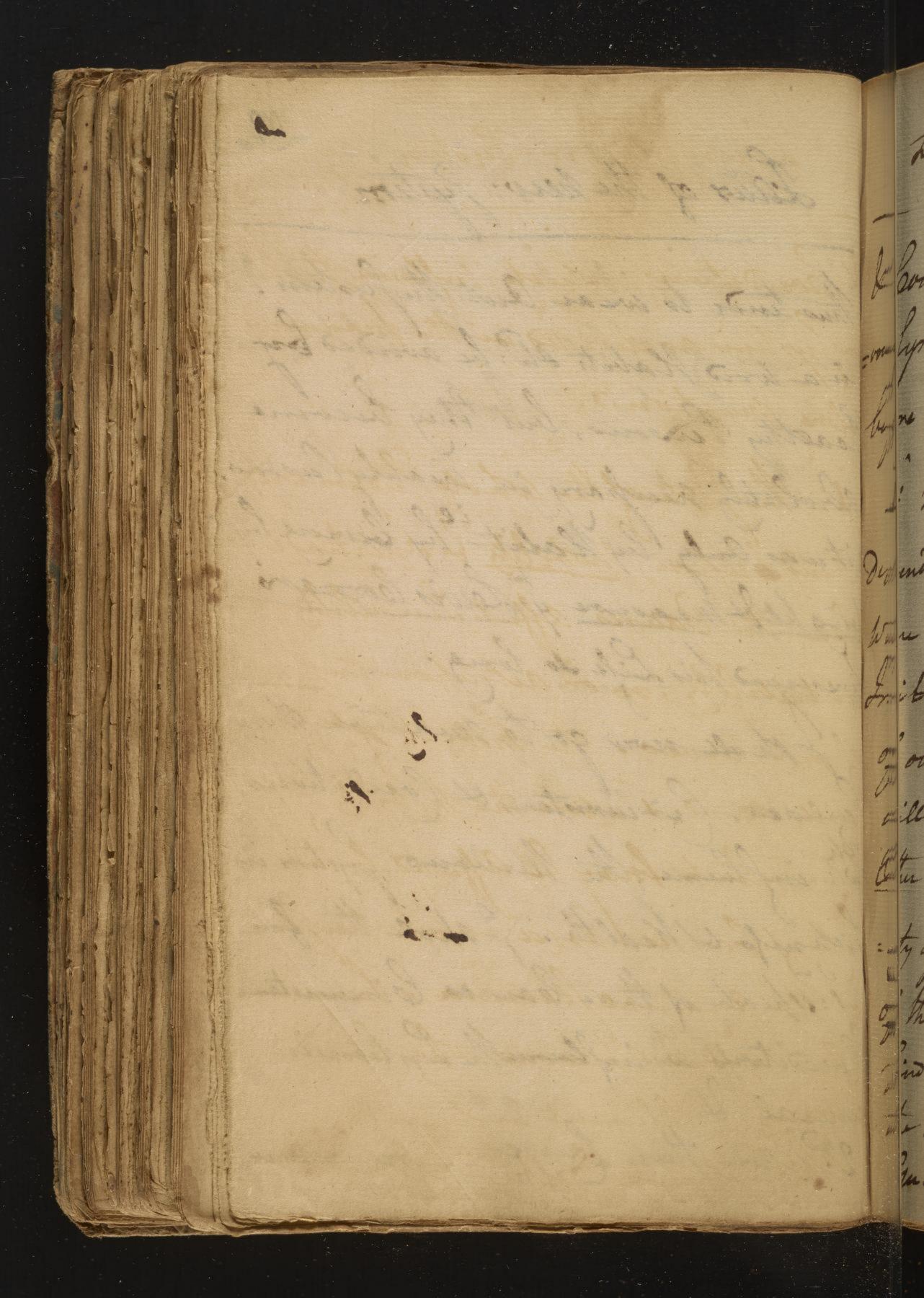
Læus of the new: fystem. Tystem is made of free odical Mabito I have the Reason Why artificial Ones are do easily induced. This finishes the Countries of the Laux of Bustom Thabit. it is a fub. jut of great dinhortance in Thysic, but more especially do in the Preduvation of Health. hunce Belsus so wisely cantinus us ag: the power & Influence of all Rabits, which lays us offen to many Occasional Paulaus of Discuses. Thomas a Lady Who from being confined for a few loubs to a dach Room for an infeamed Thus not been able to bear the Light of the fun for Some Gene.



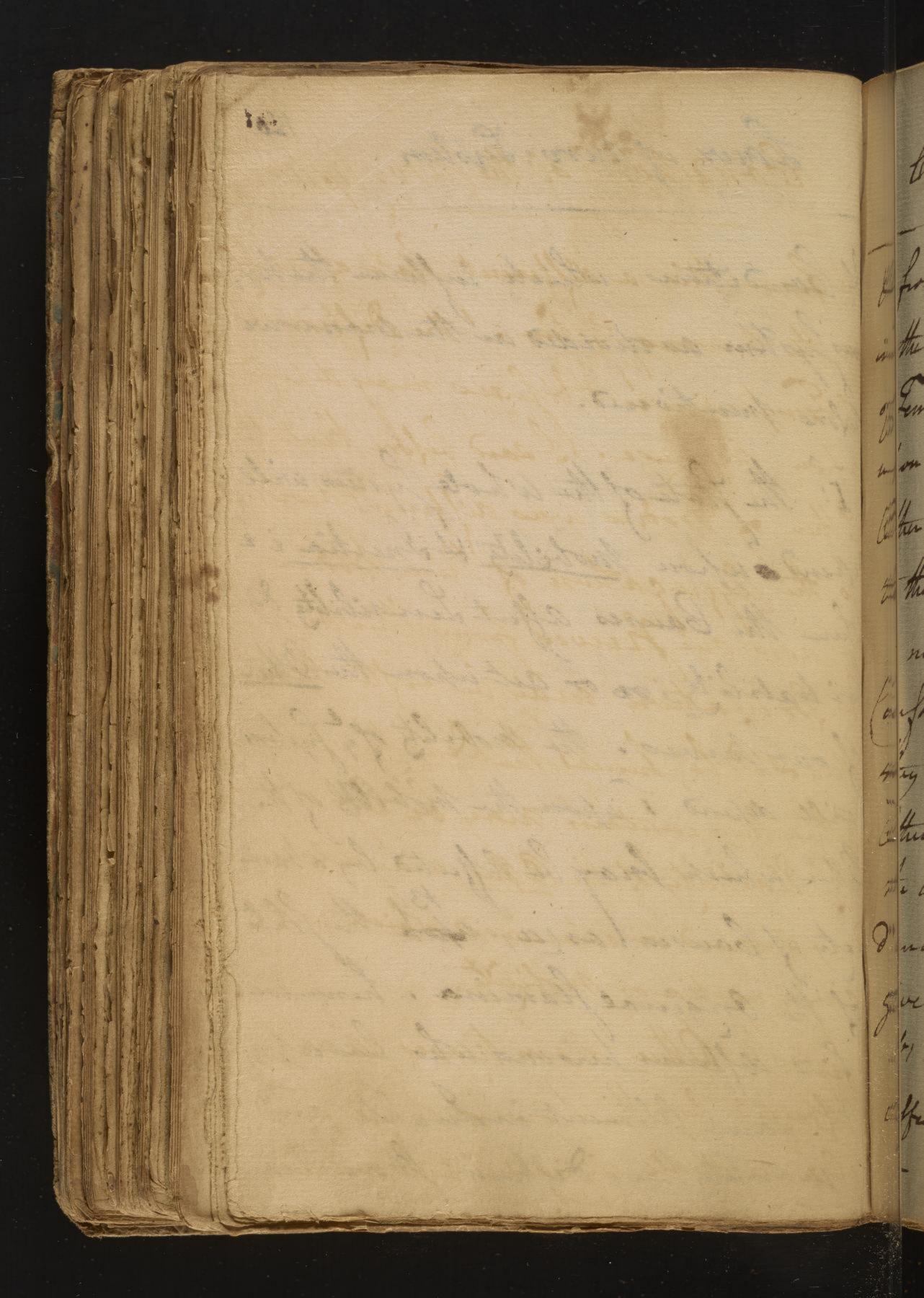
Laur of the hero: fylem. - I might easily illustrate the ill: on. . seguence of Habit own fritability as will as funibility. Belsus even jour do far as to recommend tyespes at Times to quais by: The Iffeets of Habits But there are down Habiti w: we should indeavour to again as thou Which tend to deminish the femility of the Eystem especially w: Regard to bold, but the auguisition hot only of this but of all Other Habits shill gradual. So Whom this au: could it but popille never w: Luffer Children to tastellini: mal Lood tile they were 15 orth Zears Old as it acts as a famulus to



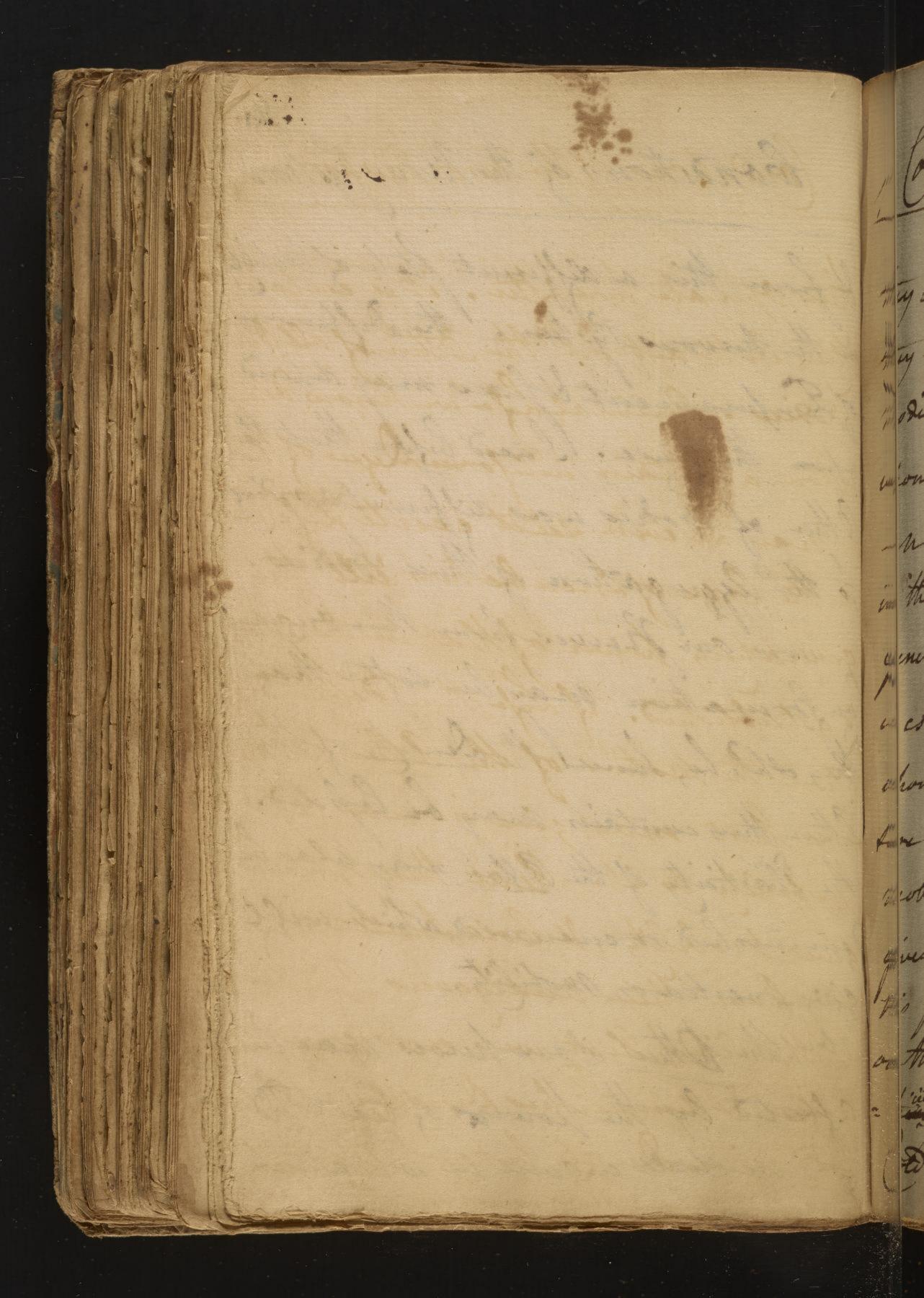
Laws of the hero: Justem Thus tinde to wear But the fystems. in a word Habits shi be avoided by realthy Fersons, but they turone abrolately hearfrary in weathly Pusons. it was any by Habit-by biving by being by being by being by Lewis Cornars preserved his Life de long. I thall now go to mention those Courses, Pincumstanes & Courditions w: influence. The hervous fystem in Jiehnefo Mealth. I shall ther fore 1: Speak of those Courses Circumstans Suncial, & Sures for Line the Line in 2nd april thouse the Line the Since of the Sures of Circumstance



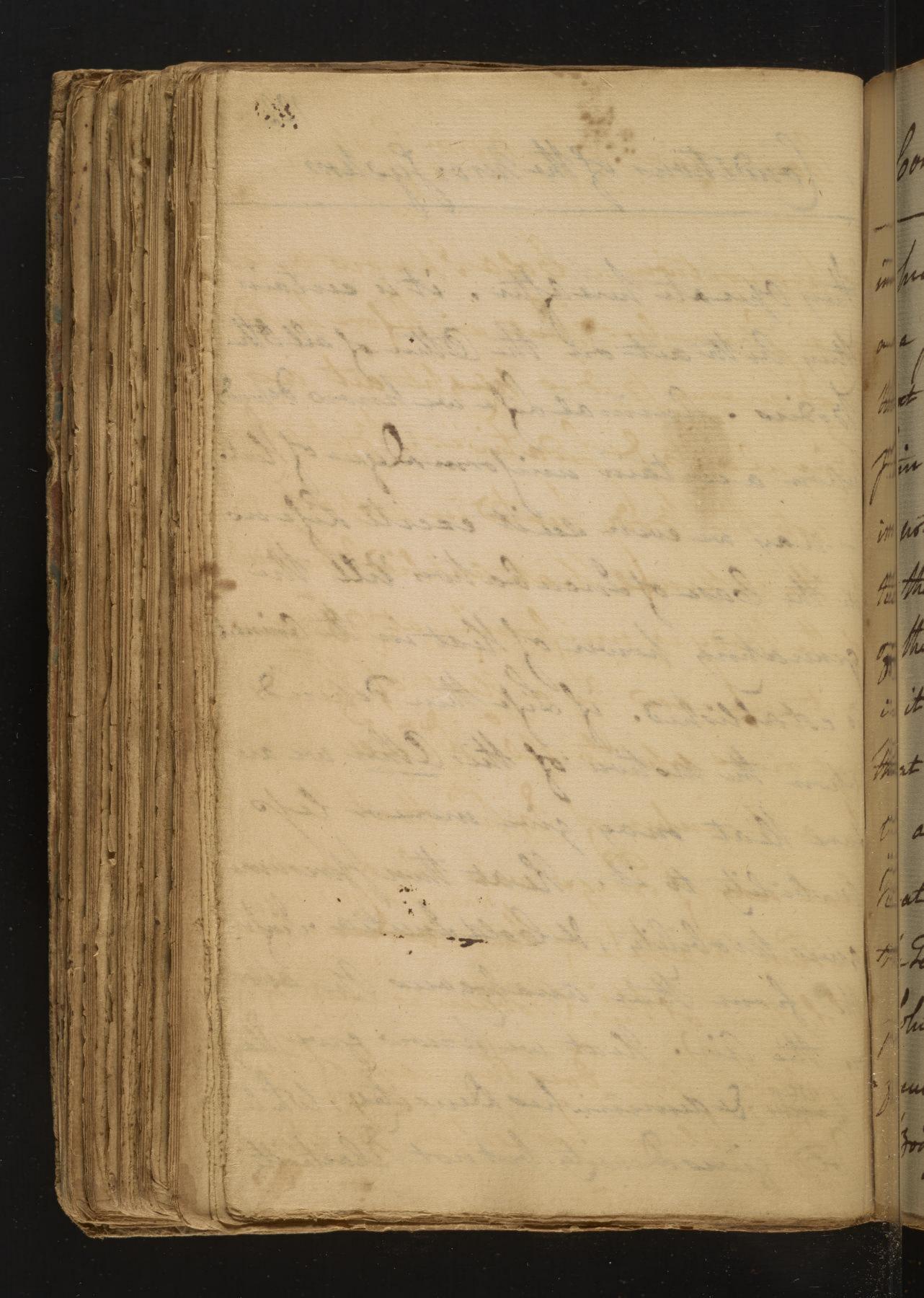
Lour of nero: Lysten L'Evenditions which influence theher. mus fystem as divided in the mannious before mustioner. I: the state of the whole fystem will Upendoupon mobility Homestia i e When the Causes affect Len sibility & Fri bability, or or autuhon the Other of our hurves. The mobility of y fystem will defend I apon the mobilet of the Other which broay be affected by abani. ety of Causes las (a, word the State of the Original stamina humewe find difficult persons who live whom the same aliment in Luality and quantity have difficult stamina



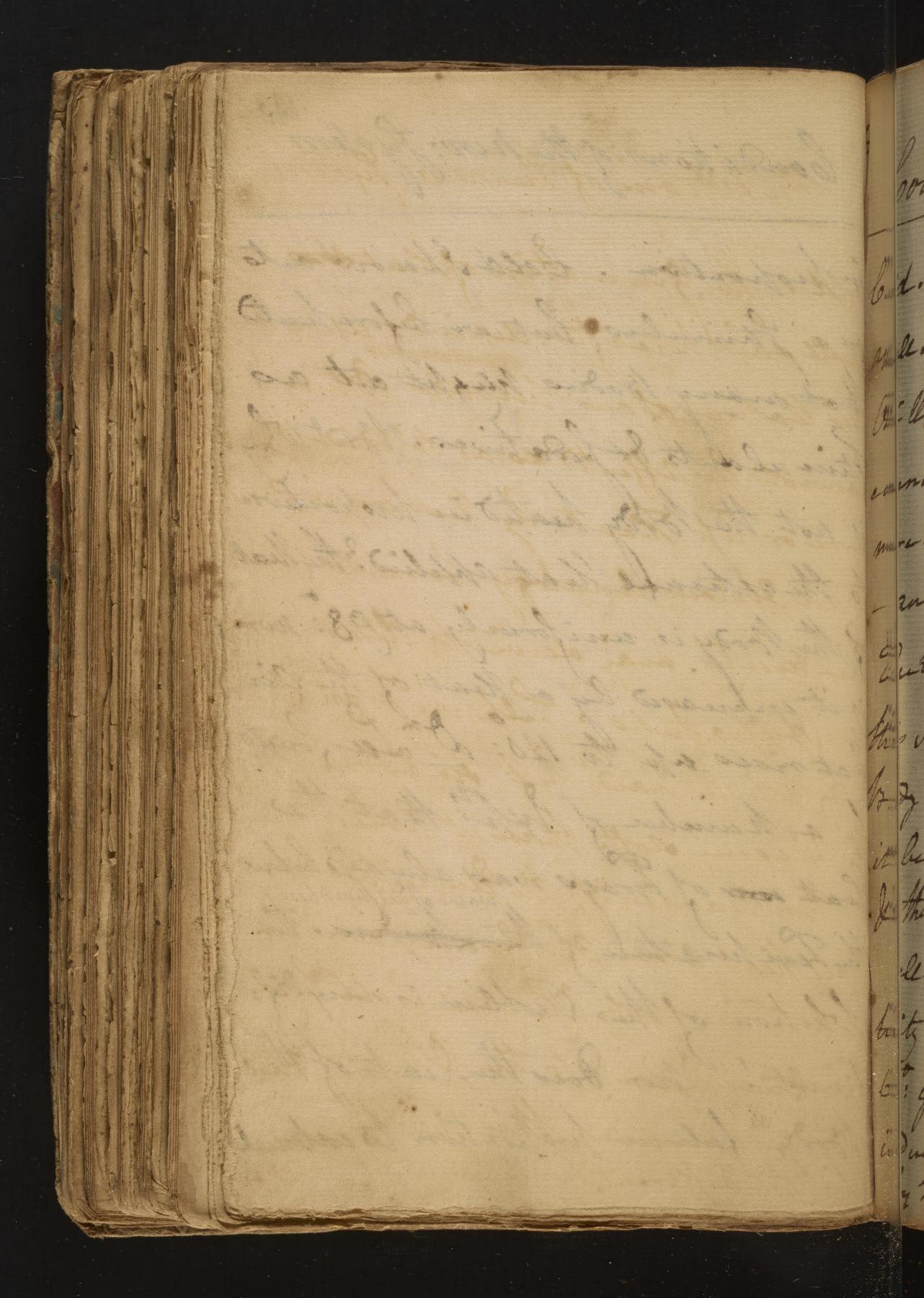
Conditions of the hero: Justem If from this a diffirmit state of Mobily in the hervous Tystem. The Diffirence of Tempurament Oferes may defind whom this Cause. I said before that the Other of Bookies was different according to the aggregation of these Bodies. now our Reves from their original onformation may be soften than Any Sh, be, henced the Density of the The Planticity of the Other may also be deminished or energoed which will give mertia or mobility. 16, the Other of our heroes may be affected by the powers of Realto Fold. we shall enguire in with auner



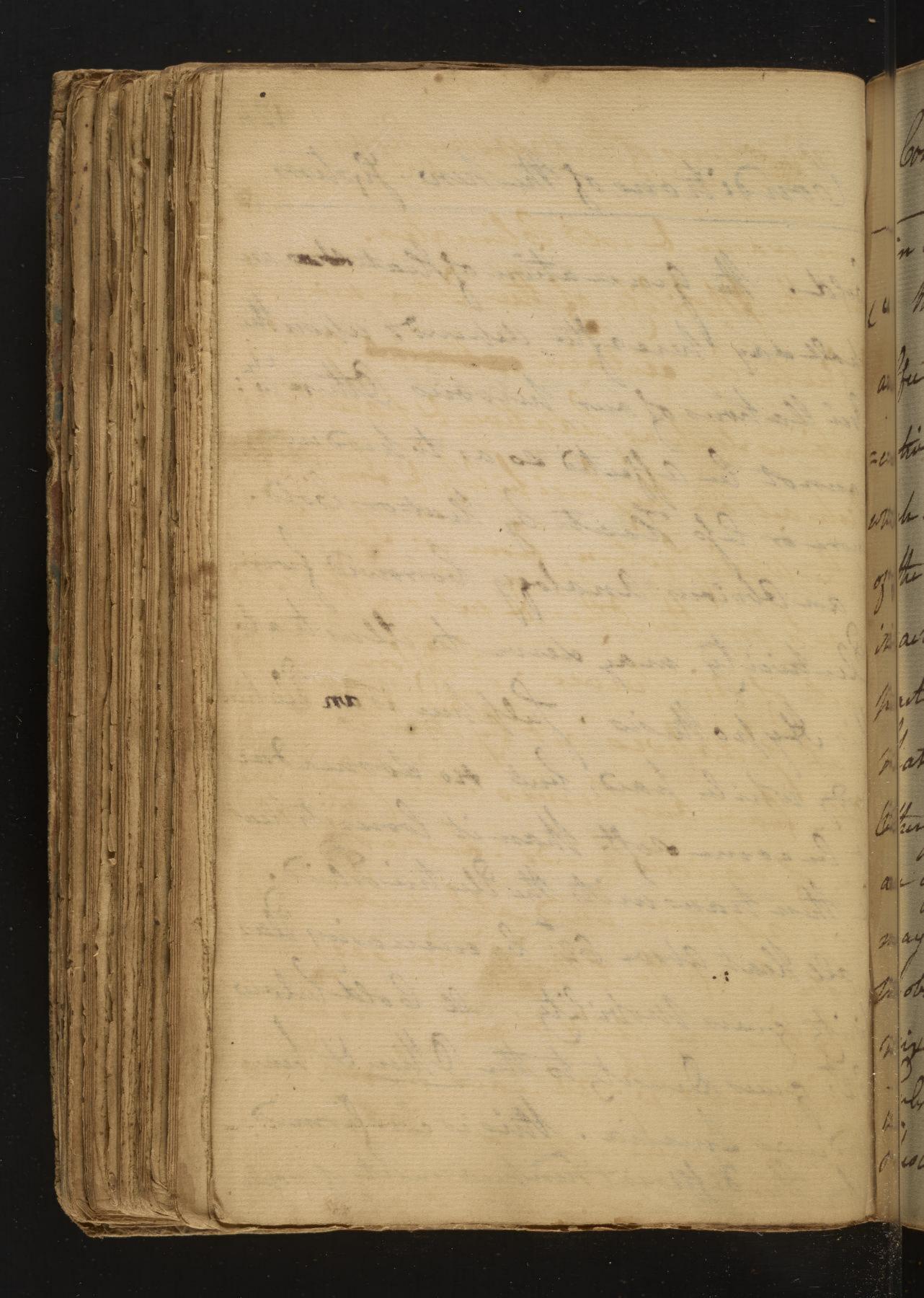
Conditions of the hero: fystem they operate here after. it is centain They both act on the Other of all Ithen Bodies. Aminal diffe we know defends whom a certain uniform Degue of Heat. - nay menn suit excite difens in the Case of Incubation till the generating power of Heat in the animal is established. if Life then Dehend whom the two tion of this Other we are fun Heat may give mone or lefo mobility to it. Heat then phresum give brobility, It Cold Inestia Vinfer This from their analogous Huation on the air. Heat we know give lles. : triving, & deminishes Density, While Tota gives Density, but not Plantietty



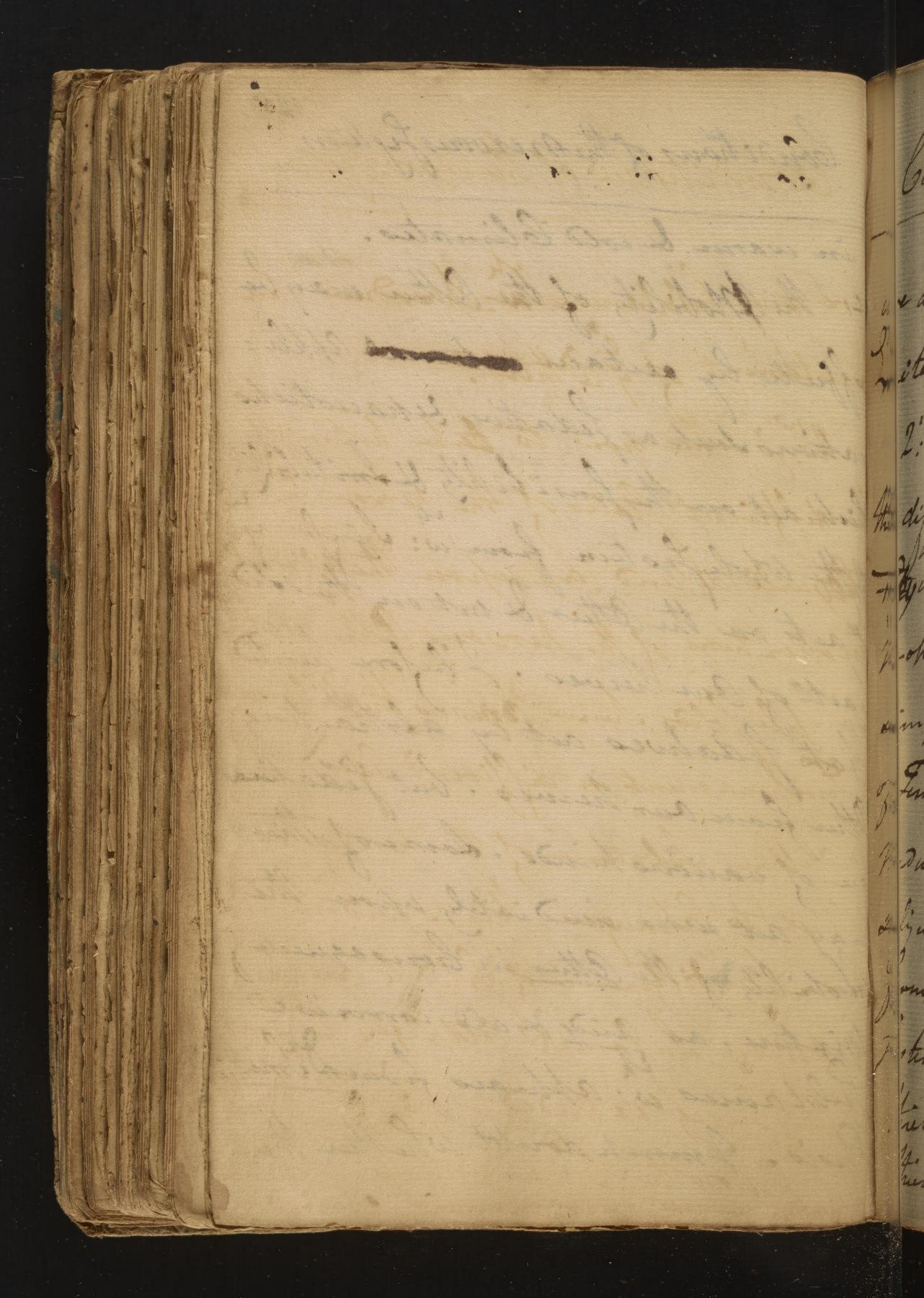
Conditions of the how: Fyotem in proportion. bold Ihnow outs as a flimulus, but we before hunted that many bodies hinght ait as This alduts & fedatives. But Why is not the Body heated in proportion to the externel heat applied? The Meat of the Body is uniformly at 98: non is it enhuased by a Heat of the air that rioss up to 120: Di Lee found by a humber of lyh! that the Heat not dirage was always below the Tem herature of the the Johnton of this Problem is very dif. ficult! por does the Reat of the Body fall in proportion to external



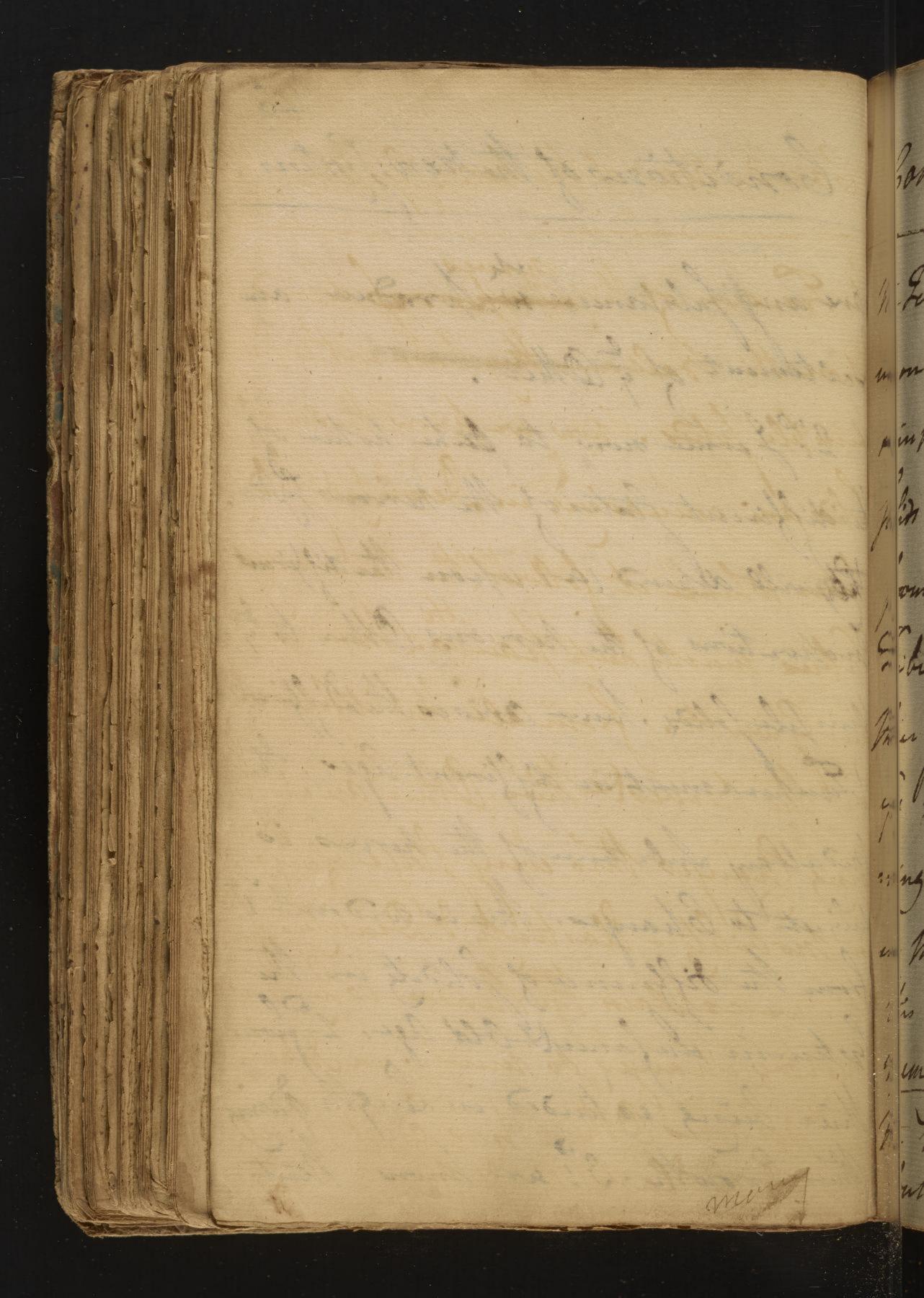
Conditions of the hero: fystem bold. Hu generation of Heat the we shall day here after depends whom the Pres la trons of our hervous. Others w: eaunot be affected so as to know we more or less Heat by heat or bold. Dan Abrian Analogy borrowed from The tricity may Leave to Mus trate this Hypothusis , Julphun is an Hutin body while hard, but no Lovenhous It become soft than it loves its that I then trans units the Electric Fluid. all Heat above 62: by enemaing Hartints gives mobility. all bold below 62: gues Density to the Other & hence induces Inestia. Athis is confirmed by the different Frinherament of highe



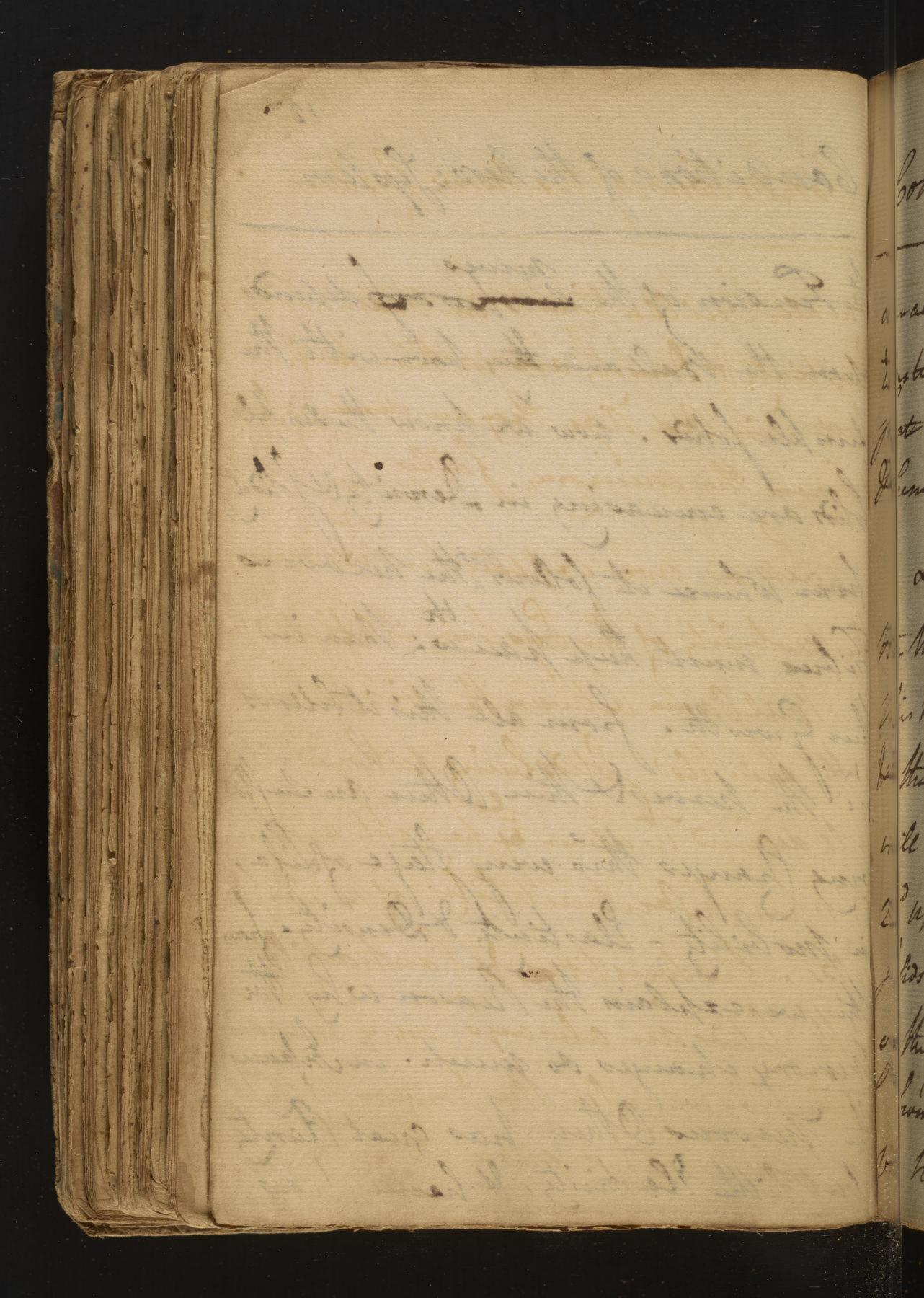
Conditions of the nervous fyteen in warm & wold Climates. (4) the Mobility of the Other many be affected by certain reations Such as fedatives Ethaustiche, which act on the fens i hilly Womitubility of the Whole fyo tim from w: Sinfer y: it acts on the Other & not on the solid hast of Our herves. I histore hinted that fedalises out by abstracting Other from our herves. but fedations and of various hinds. Lame of Them may act more inediately whom the In obility of the Other in Coursequency mixture, as quid de all corrorios Tubstances w: appears from Dimites Theois. I much doubt whether there



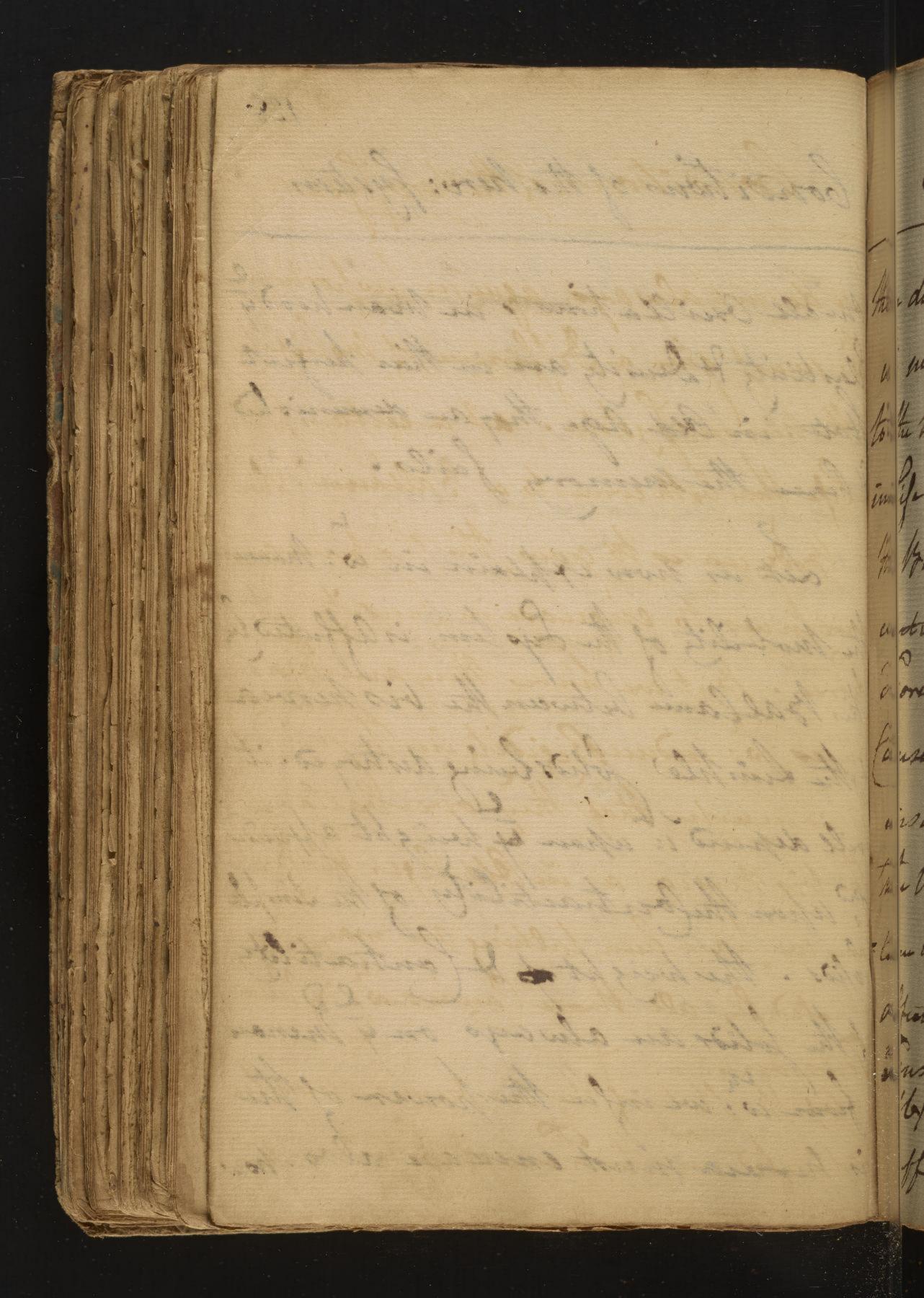
Conditions of the hen: fysten are any fulrtances w: firstrue an reitement of gother. 2: Jemme now to bethe hotie of the diffirent states of the nervous fisting they will define (a , whom the different mohor times of the herrons Other to 9: Simple folids home como is the Diffirence Temperament in different liges. The moultany Substant of the herres is July est to Changes. This is wident! from the diffinence of John its in The Tystemin Lufamy & Old Age, & form their being extended in Length daning This Growth . 3: we know that



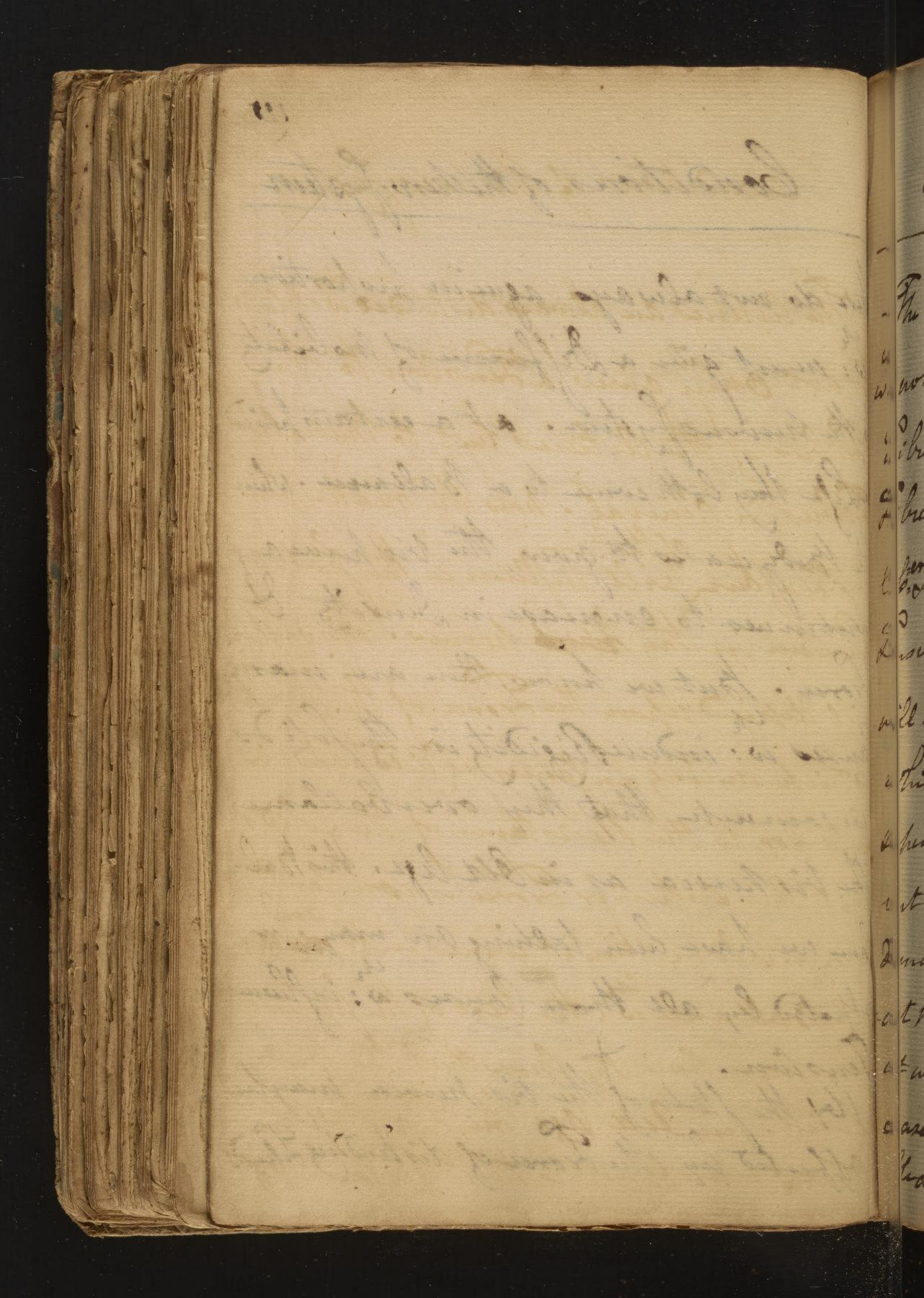
Canditions of the hero: Jystem the Tension of the Surpos of depends whom the Ball and they have with the fin ple sohes. now we know the Limple plin an emuasing in Dennitz Of Bits from Whence it follows the her owns Libres must heep paule him in Thur Gww th. from all this it follows y! The herves of this Other are Suffer ring Changes thro every stage of life, in mobility - Planticity & Density from this we explain the Reason why the memory changes de much in infancy the heroons Other has great Plants but little Elastriits. I have has



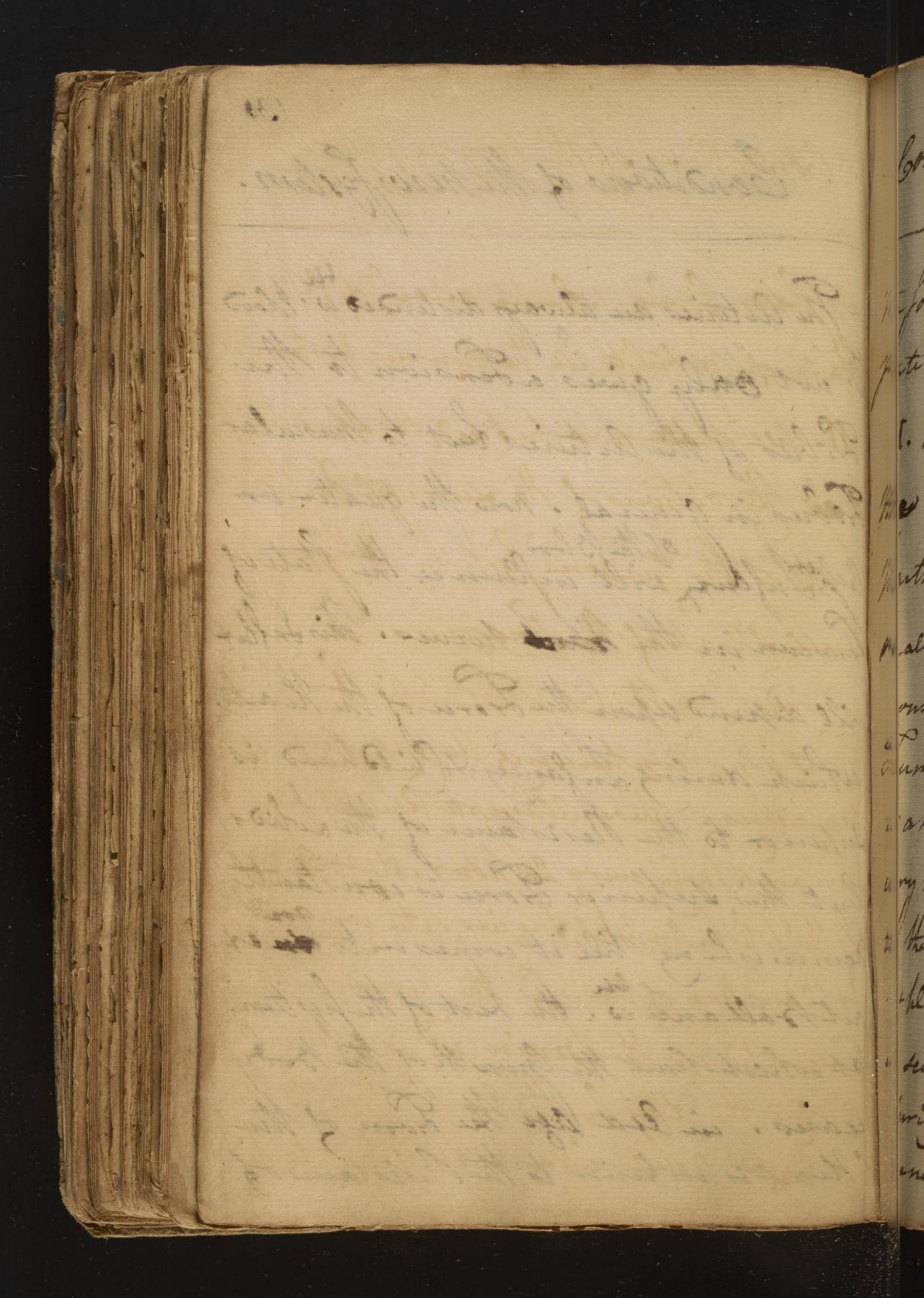
Conditions of the here: fystem Amall Chillations in manhoody Plantity & Density are in their herfut. It att. in Bed age they are deminished & hence the memory fails. Let us now explain in w: hanner An mobility of the Lys term is affectively This Ballame between the vis herved the Limble folids being distroyed it will depund is whom I heright appended 2. upon the Contractility of the Simple Tolids. The weight of antautility of the folist are always ony menan from we we infer the power of the vis huvera must encuare also. how



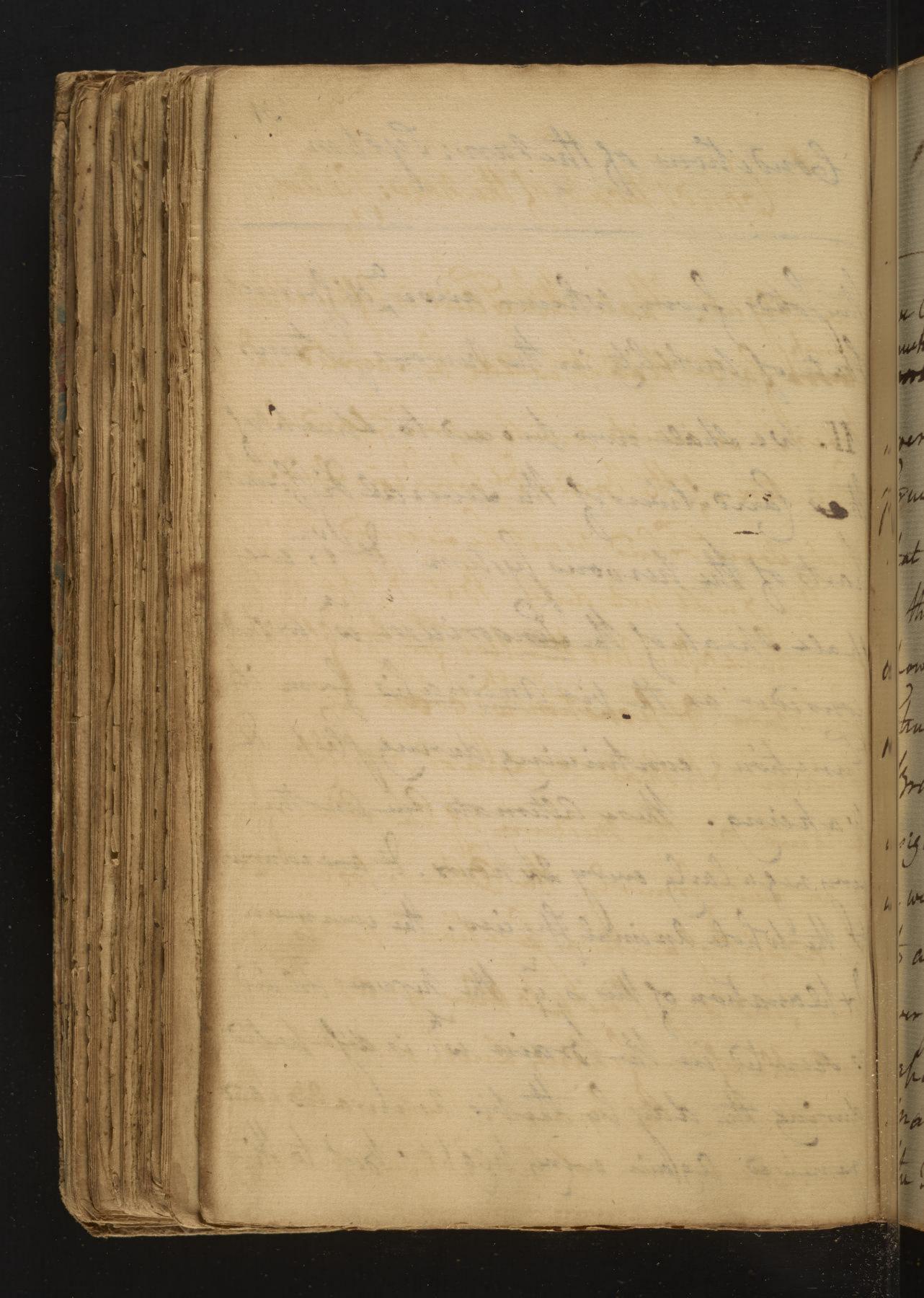
Conditions of the hero: Tystem huse do surt always agui un proportion w: mart give a Diffirme of mobility to the hervous fysterer. at a certain period in Life they both come to a Ballance . When the Body wases to given, the Vis howe a wrotinues to encuase in Junsity & Horse . But we know there are many auses w: induus Rigidits in Majolids insomuch that they overballame The Vis hereca as in Bld lege. His bal. Came we have been lathing on may be affected by all throse Causes w: influence les the state of the bis human maybe affected by the From of distinding Thirds.



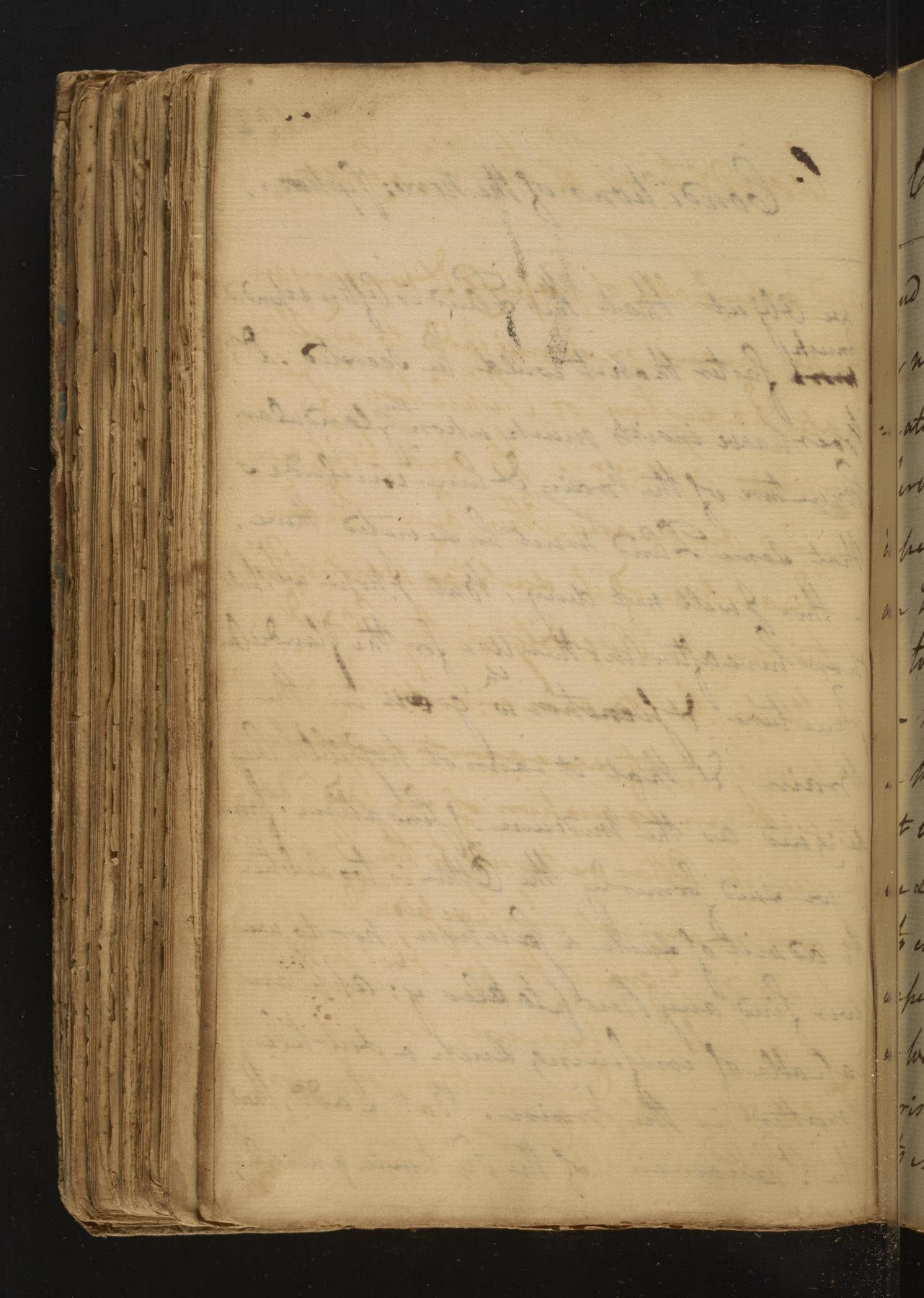
Conditions of the hero: Fystem. - The arteries are always distinded w: Klood w: not only gives a Tension to the Libres of the actions but to Musular Fibres in General. how the greater or life of the plant will influence the flate of Lensium in the House herves. This Influt will depend whom the Form of the Hearty which during Infancy Afhildhood is Superior to the Resistance of the Solids, but this Superior Force is constantly deminishing till it comes into de ex: act ball anews. the hest of the pystem at which time the Growth of the Body ceases. in Bed lige the Love of the Heart is in ferior to the Peristance of



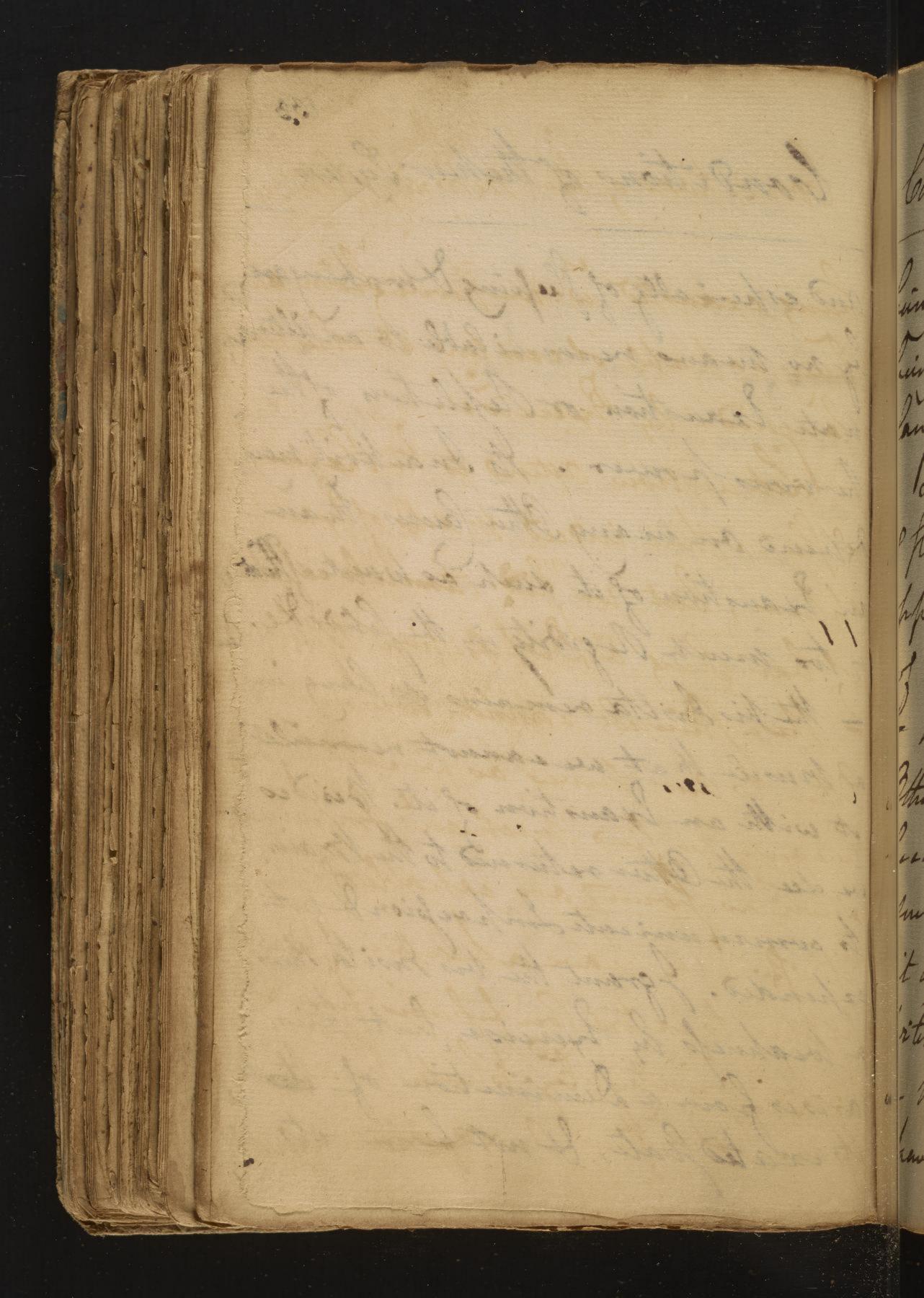
Conditions of the hun: Tystem 131 the folids from whom and difficult State of burbility in the howous fystern. II. We Shall now proceed to Sheah of the Canditions of the Several Diffinent harts of the heroons fystem, & " we Thate Sheah of the Jensorium w: we shall consider as the bis animalis from its Functions continuing during flech & Wakeing. These alternate am another very negularly every 2h hours, & ane common tot the Whole animal fracies. The common It blancation of this is, y: the heroms Flind is secreted in the Brain w: is difficulted during the day by the bis animalis, and renewed aglain every hight but to this



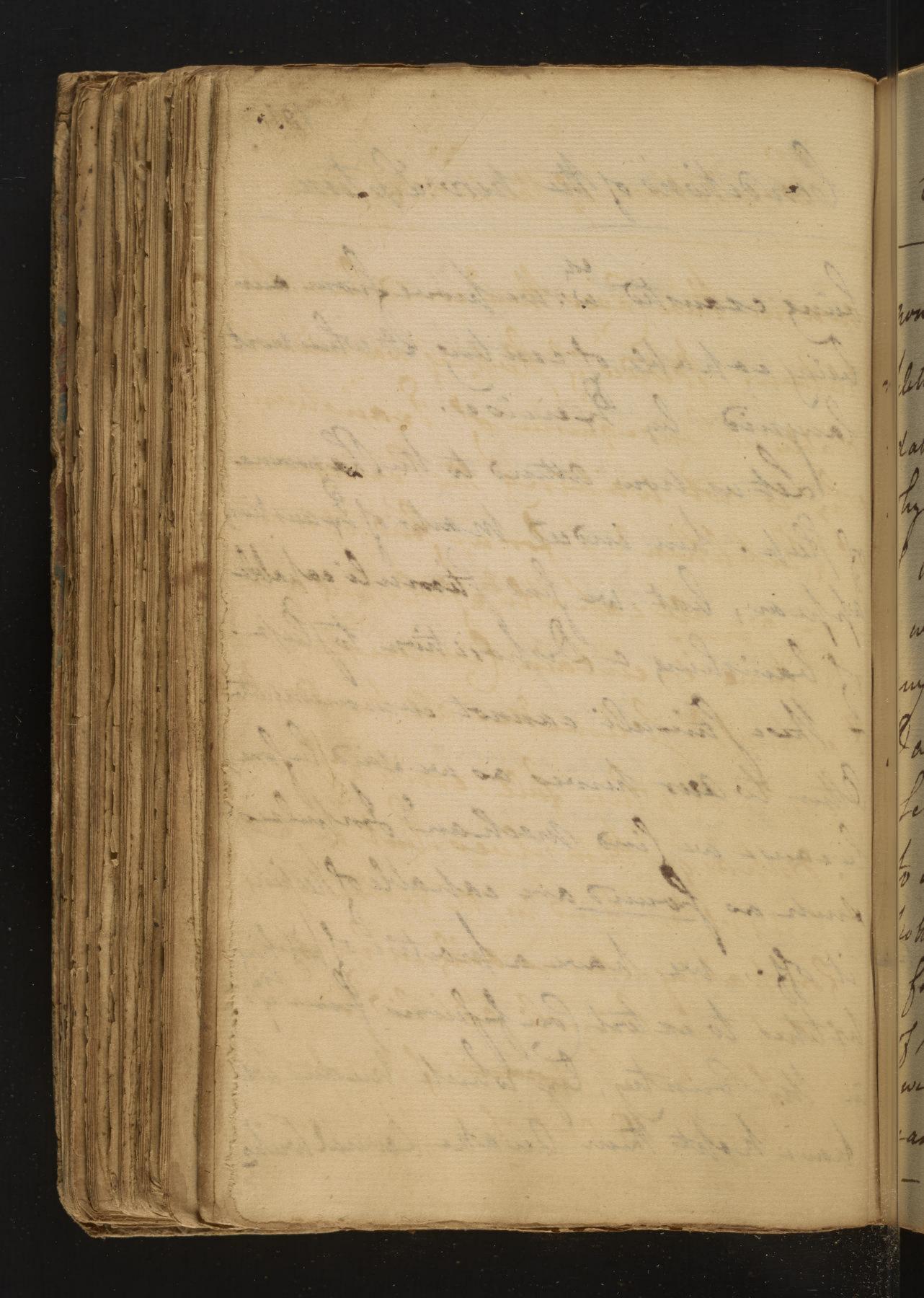
Conditions of the hero: Justin. much faster than it would be scenter . Do Proes haave insists much whon Glandular How two of the Brain & hume winder that Same Thing must be secreted there. - this fivell not deny, but thehe we shall thow here after another Use for the glandeller Jane tune & fecartion wi gran in the Grain, & that it cannot hopibly be designed as the midium of fino ation. from w. we said formerly the Other is too dealther to admit of Such a feer thou, hor do we ever find any Receptables y: appear capable of confining duch a dubtile matter in the main. But lado, that the Transmena of the Lys timin pennel,



Conditions of the how. System and especially of Resping & townhing are by no huano neconcilable to an alter t nate Transton or Replition of the hervous power. It Inactivity mays Depend on many Other Pauses Stram in an Haustion of it such as want of theat - too much Regidsty in the folids de. - the his Insita remains do long in to a musile that we cannot reconcile it with an brain town of it. Besides we see the Other returned to the Brain to communicate Imporpion & not expended. I grant the vis Insita Thour ! a breakness by hyerise but this arises from a Deminution of the its its excited state, I not from its



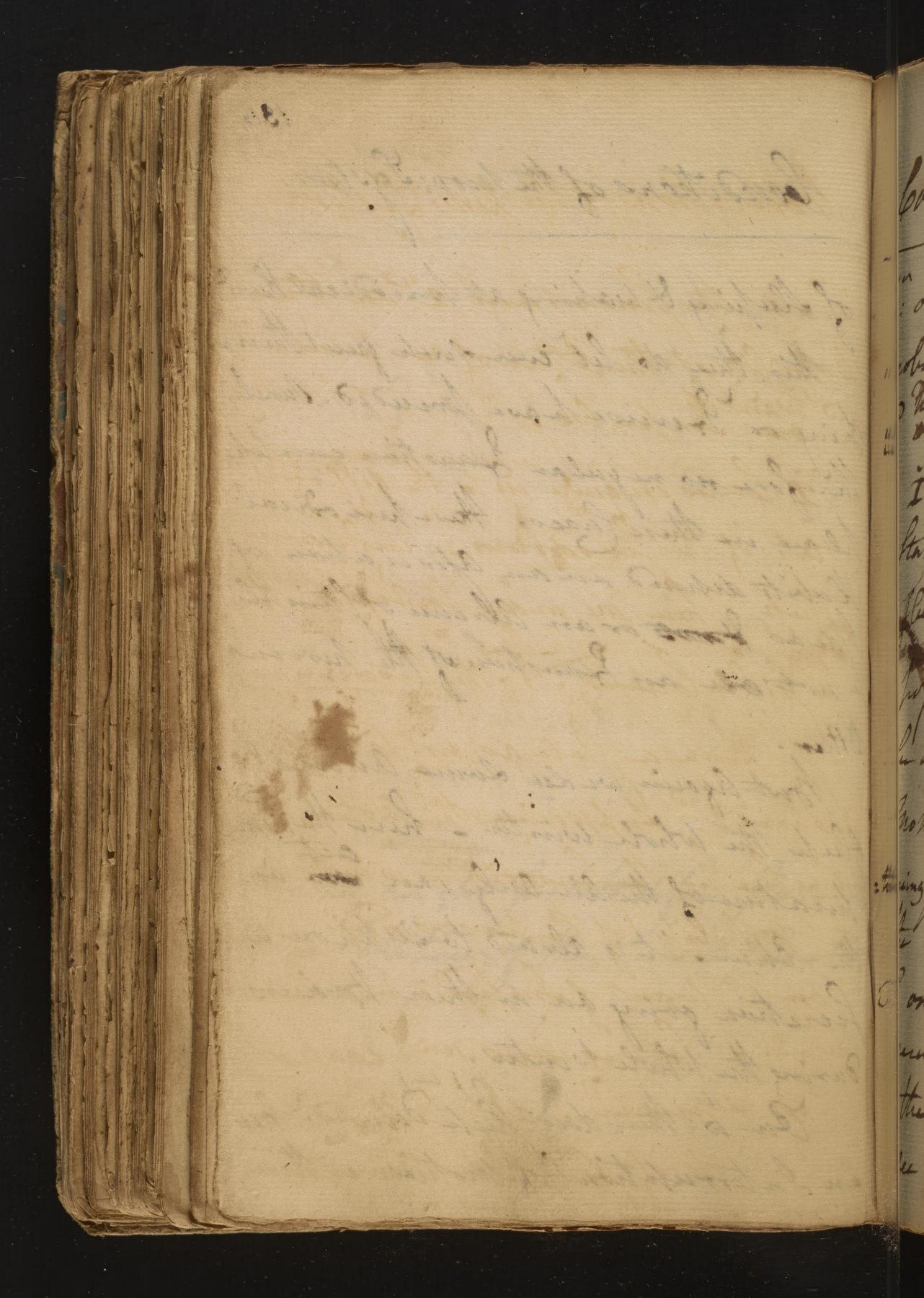
Conditions of the hero: Lystern ling exausted w: we prove from our being earhable of exciting it when most languid by Genise. Let us how attend to the harmone of Rup. hue indud marks of haustions appear, but we find stimulicapable of banishing a Dishorition to flut. - Muse stringli cannot communicate Other to aur houses as we said before besause we find mechani Impulses Such as found are capable of kuping it off. we have a practise of prinking wither to extent Configures from y. in this Brintry, by which breams we have hefit them awake Leveral bruke



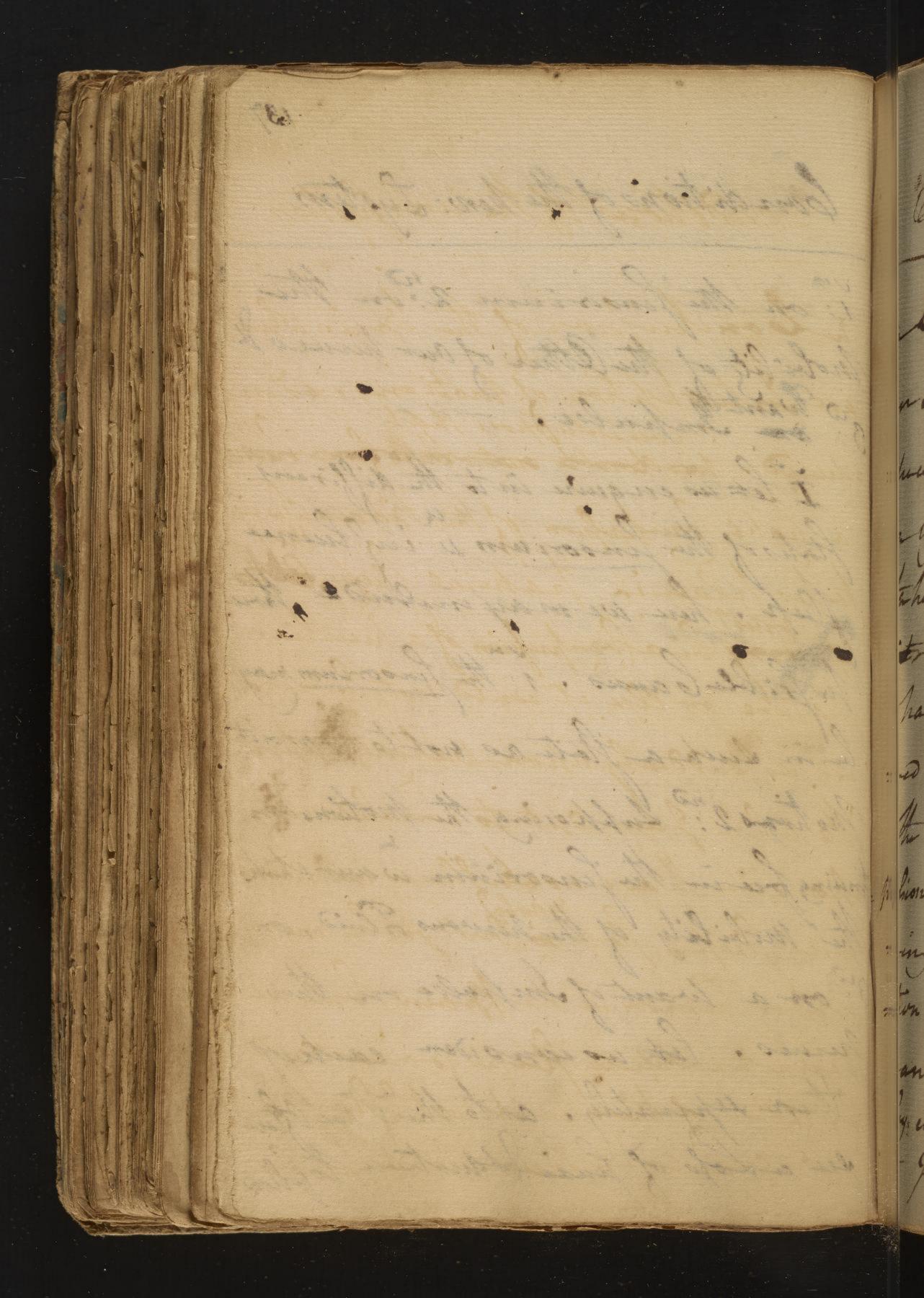
Conditions of the huro: Lysteen now in thise Pases there could be nother hletion. Besides if Rufing was unavois =dable in Ponsequence of Transton Why is not wahing the Poursequence of Repletion? - for we find it is not - un are all cabable of slufung at any time in curtain Grunnstanas of Darhnefs- filewelle. all the Other feretions when full, excite aftimulus to Sicharge thumselves, but we see To thing of this him in the horour Other. - for wahing returns only in Consequence of labit or famuli apphies to y body. we often bee Instances of propletho can bluch 18 out of the 2h hours. how shall we au! for y Return

and the state of t how in the was new When the Dut of which and we were distance of persons of I garden " iny the the first the first of the first The filter to the wife of the same la in me alle affected for the formation of the second time in our train finance thered he had be for the second of the second III the of the four full order to a thing my find plus for the time our (a) we am ght first to define fleefrist is a Capation of the animal Function

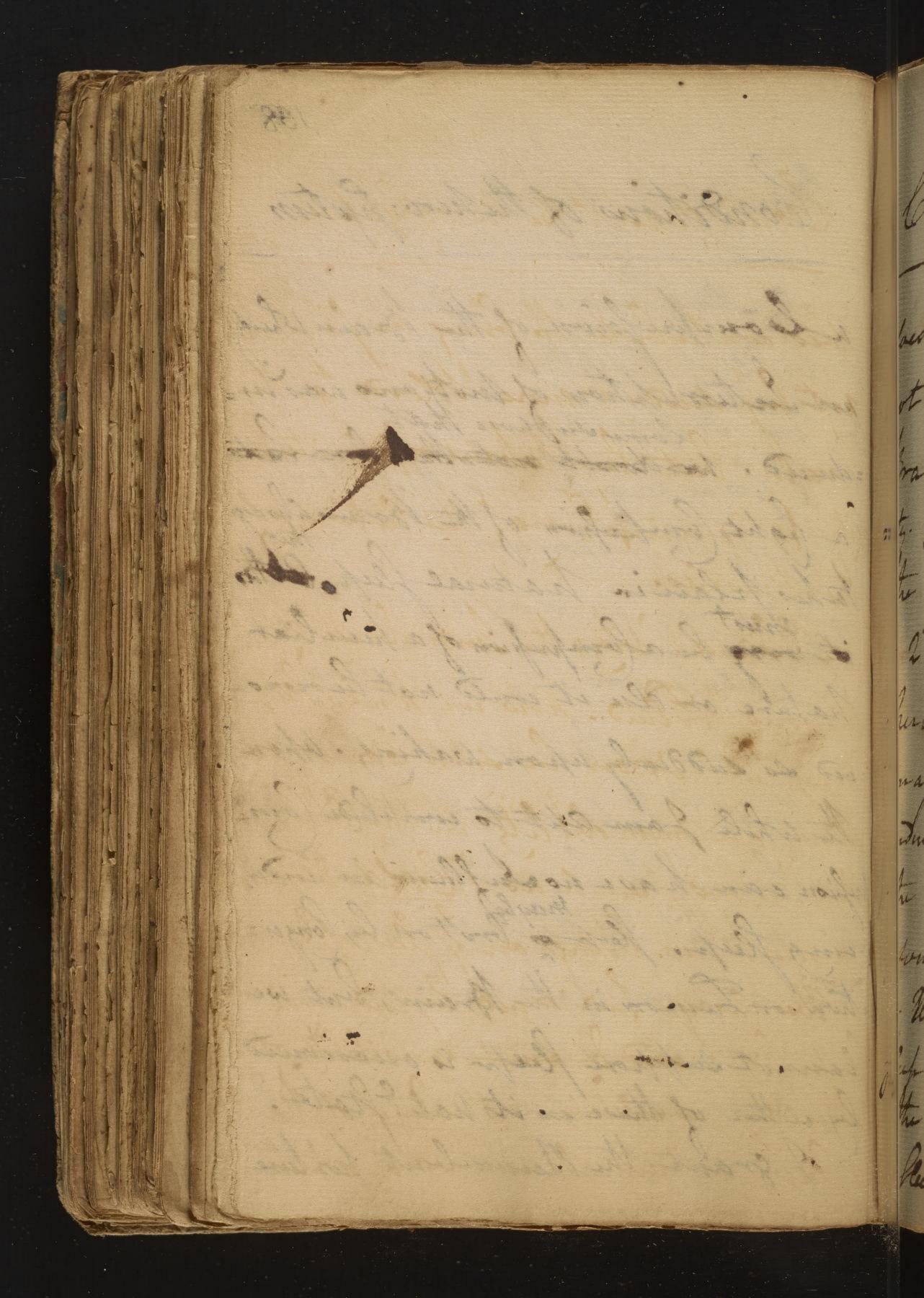
Conditions of the huro; System of Sleeping & waking at heriodical Hours. - This they do, let ever such qualthin: hing or Frencisch have precided. Purely Therefore no negular Hans tien can take place in these Cases. Has his odical Rabits depund on an afrociation of de as from or an allrine off time ili I not our an Lawstron of the hirons But again we der Dame animals Alufa the Whole winter - here the Jem. het hirature of the his ling can were an the Other it is alrato to Suppose h fecretion going an in their Brains During the Whole to inter. On is then doing the Delund? on un Interruption of Inotion either



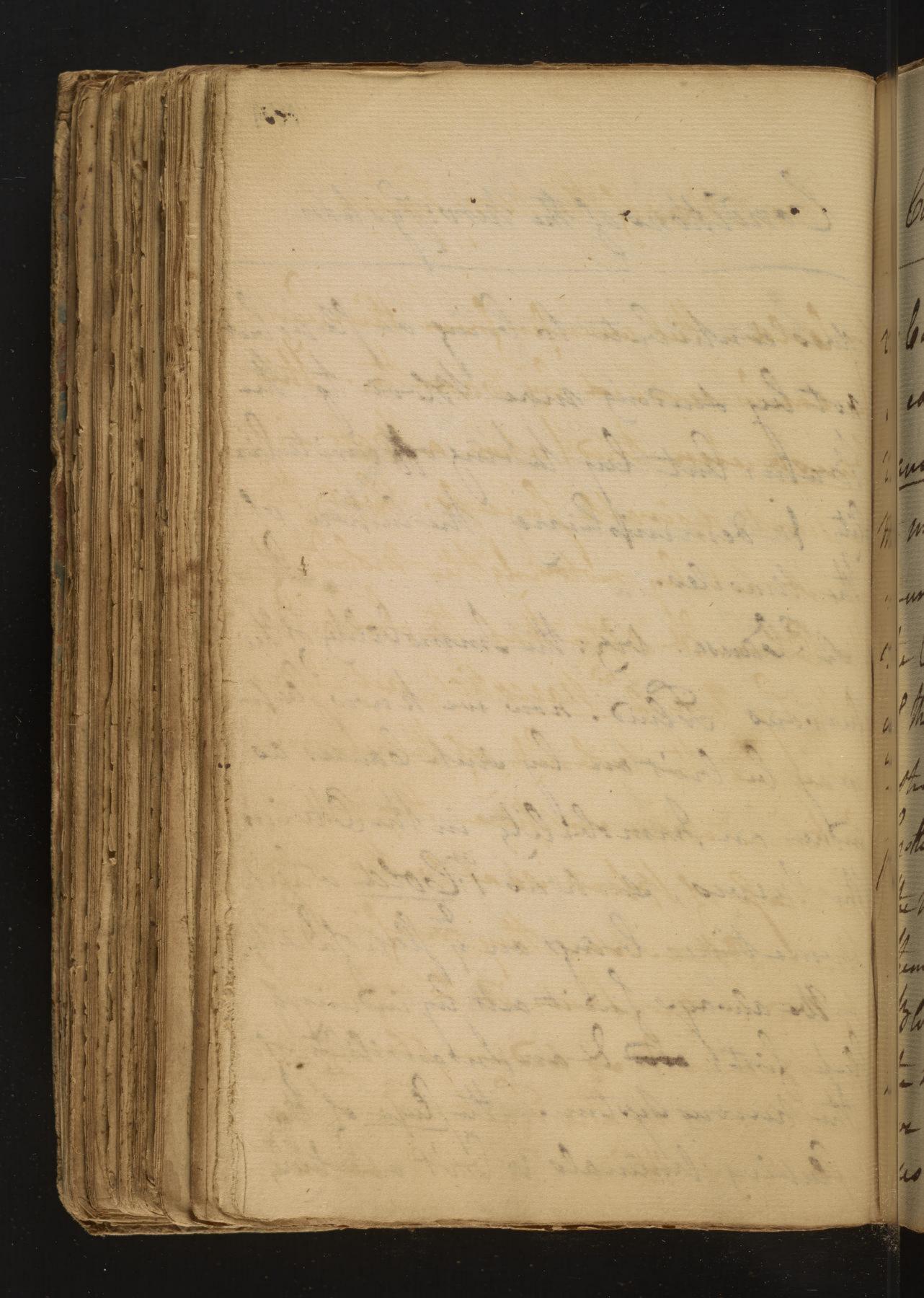
Conditions of the hero: Lystem Inobility of the Other of our humes det 3: on Impulse. ---I let us enguire in to the diffirent. States of the finsorium in influence lup. here we may include three possible 6 anses. 1: the finsorium may him Such a State as not to transmit motions 2: Inphoring the motions con tinuing free in the fenorium wever chules The mobility of the hervous Fluid, on 3" on a want of Impulse on the hernes. Est us warsiden eachof these separately, as to the i we often des a Lofo of Juni Haution tofollow



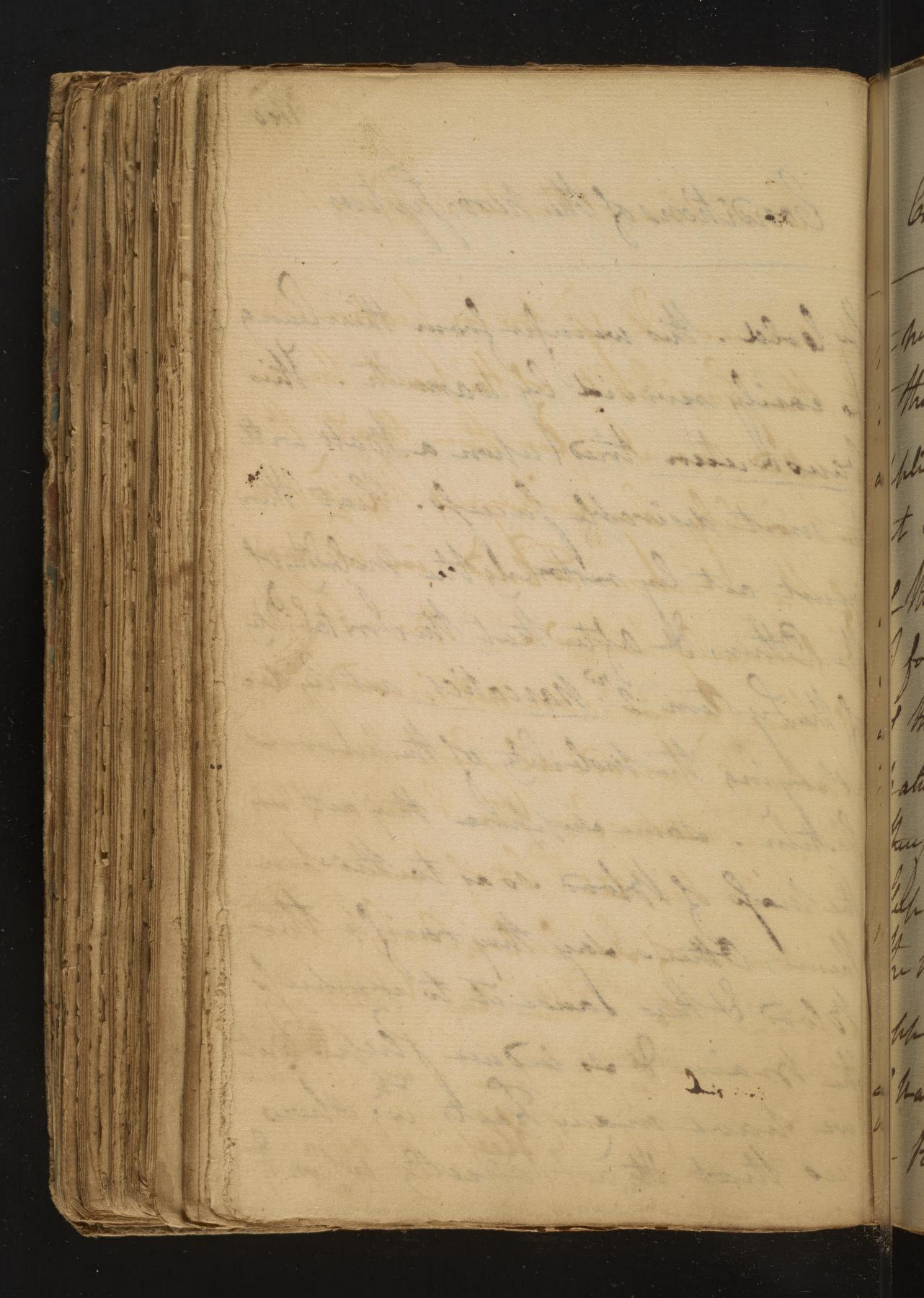
Conditions of the hero: fystem a Combinispion of the Brain Whendy an Interruption of Inotions was in: a light Compression of the Brain always takes placein patural fleepo Boths its mis be a formpreficion of a peculiar hature or else it could not luremo-: wed so suddenly whom waking . Whom The whole fram aft to constide form. presion ean have no Influence in indu. · cing fleep. flech is bow ton by longer: tion or Tumor in the Brain, but we cannot suppose fleet is our sioned. by either of these in its hat that.



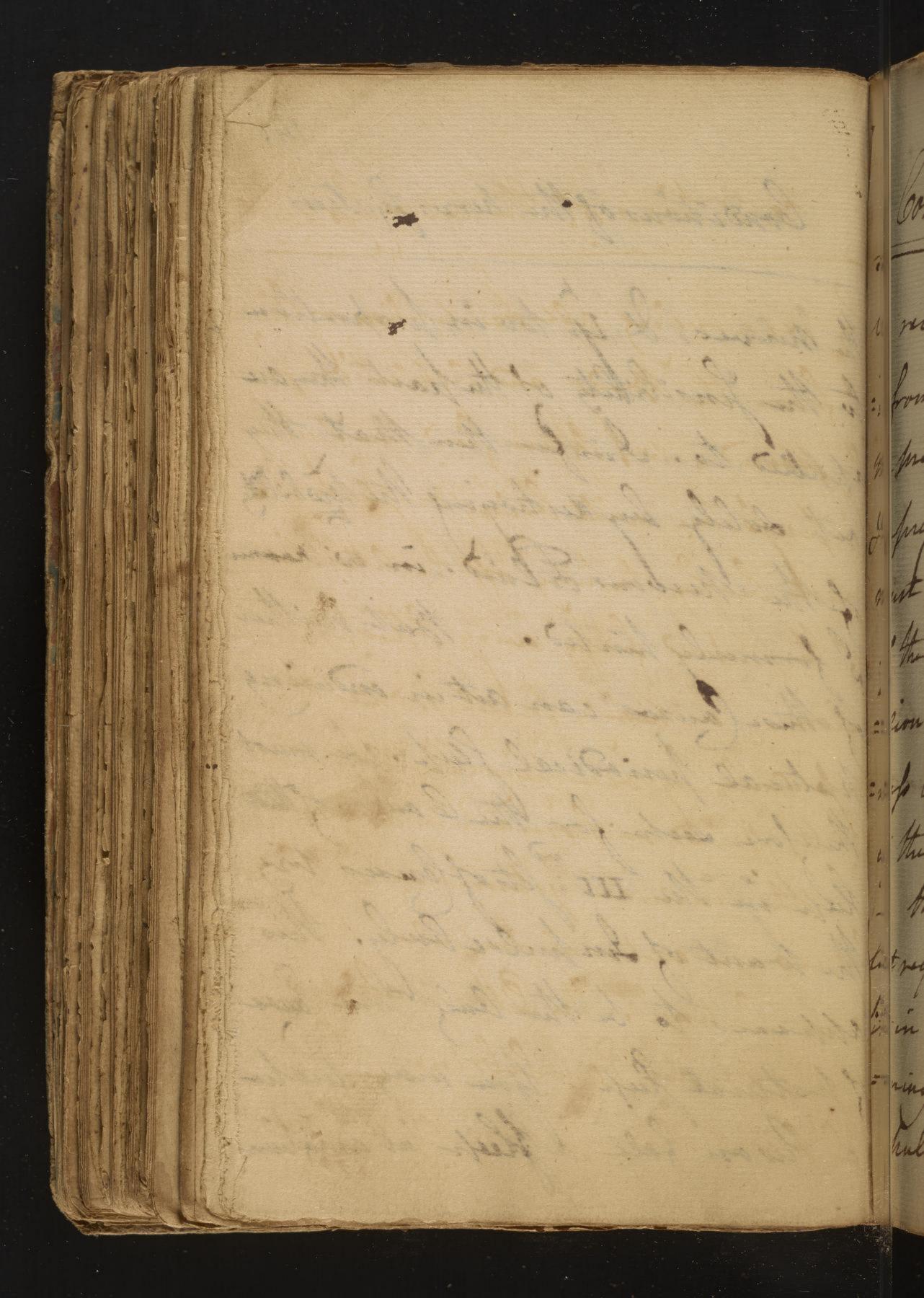
Conditions of the hero: fystem does contribute to bring on fleches but not by suring more Blood to the Brahn, but by taking of chriteilis lity. I deminishing the Cution of 2. Cause. big: the Immobility of the hervous Fluid. now we know flufa may be brotton by Such Causes as induce an Immobility in the Otherin The Turves, Such no 1: Bold which Sometimes brings on y fleep of Death. - The always find it outs by induing flut first of Kan Intensibility of the hurous dystem. the Plufe of the fleeting liminals is brot onewhile



Conditions of the hero: furtur by bold. This weinfer from thierbeing to easily sevived by warmth. This Vanschieten tried lupun a Batt with The most desirable faculs. Reat then must out by sestoring the mobility of the Other, It after that the Initability of the Lystem 2" Marcotics act by der . Haying the mobility of the helwours fystim. some suppose they act un the majo of Blows so as to this him Themel, Thurs day they rarific the Blood of thus laws it to compress the brain I so indue flech. But. we have many hasts w; Shere us that the act Directly Whong.



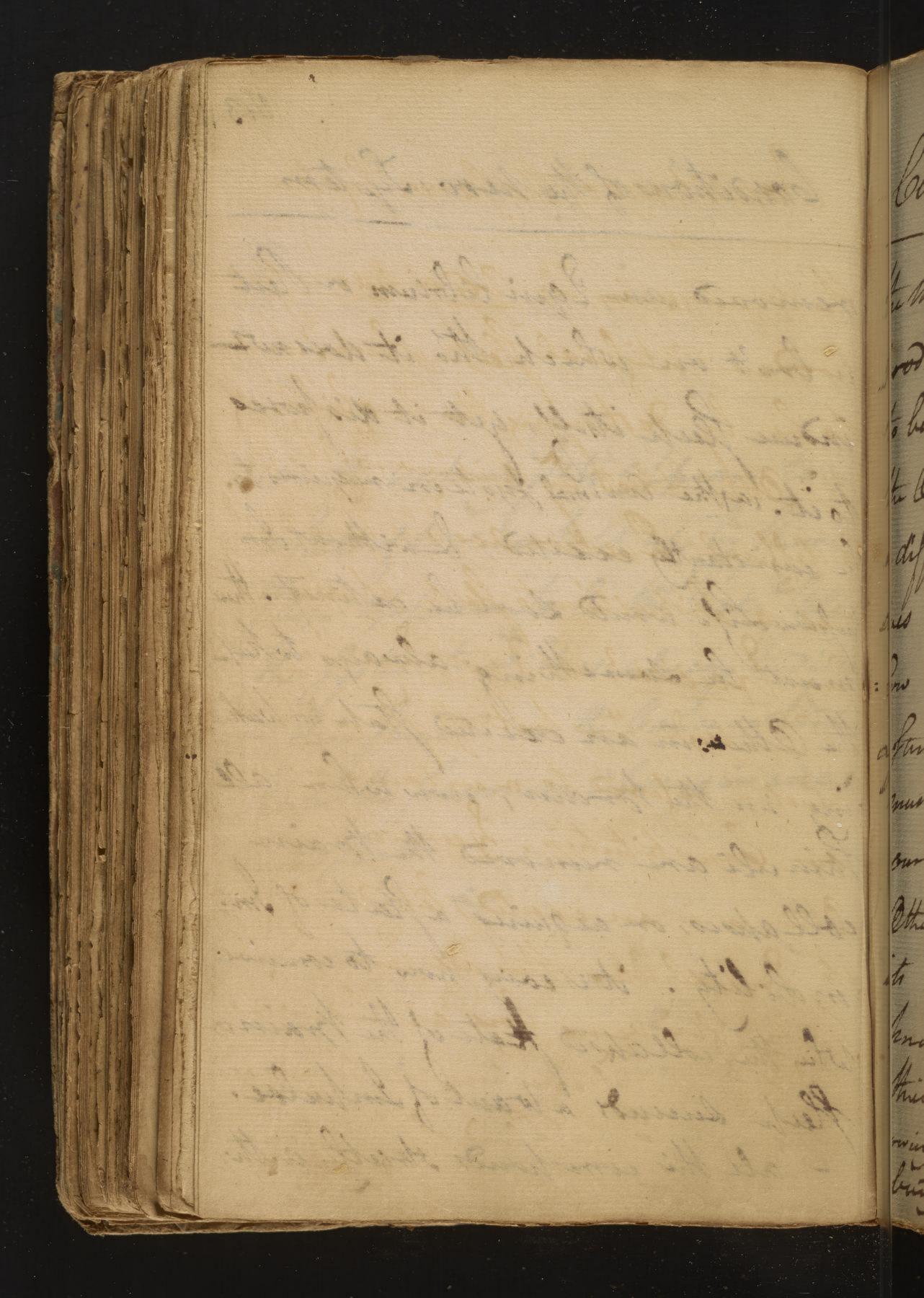
Conditions of the hero: fystem the horves, & 4 it too in proportion to the finishity of the hast they are applied to. Sinfer then that they not Lolely by destroying the mobility of the Musbous Flind. in withour I formuly hinted. But heither of these Causes can act in indiving patural puriodical flut. we must therefore such for the Course of the The brant of Impulse Buly. This appears to be the any true passe of hatural fleep. you may make a Person fall deflech at anytime



Gonditions of the huror fystern by run overing all Imprions or time : I from the Body and agitution from the friend. Wel After Jim and Single Impression will bring on the w: must be by turning of the attention of the trains from any Other compress. : Sion. a hearty Inhal indues flutis inels andy by veculying the attention I the Mind or Stormach in Digestion. the animal fystem is no leutomaton but requires external Imbulses to keep it in action. The Other is always air - ming at an Equilibrium, but im: : hulses distroy it, now when they are

(a) the waking Itale appears to be aftate of brokens heft up by flimule. fleet appears to be the hate States the fyotime to wit is always tending, him here flinds are the Causes which the fensorium always in an es:

Conditions of the hero: Typ term removed an Zqui librium or Plest is brot on which the it does not tole induce flech itself, get it disposes Linui. to it. withe animal System requires to be courtantly excited, Luithout om -Julium Life would Som he extinct. Then Die must be Something always to keep. the Other in an excited that in wah: ing in the Brain, non when all Thin uli an numoved the Brain collapses, or acquires afterte of Im: : mobility. it is easy now to conceive Why the collapsed that of the Frains Heip Sumbulse. - all this correshonds strictly with



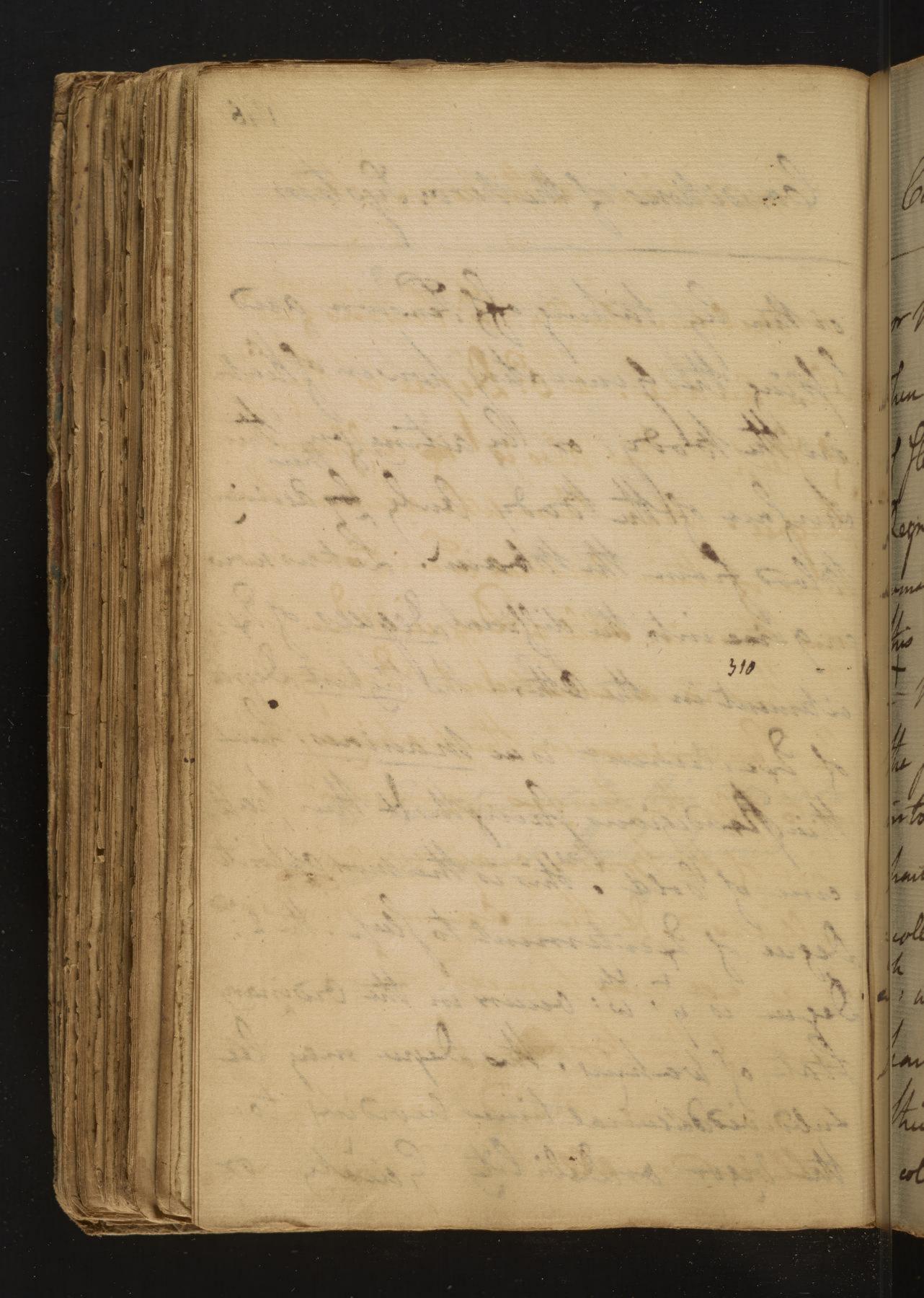
Conditions of the hero: fyoten the manner in w: Told & har wo ticks poodure artificial fleet which Simajin to be by Lestroying the mobility of the Other Unot by mixing wiit. But a difficult Question acours here . Why dues a Dispurition to flush always Jols · low becise? Shis not berise act as afternulis It thus but of flesh ? - this must be referred to a certain Law in our Canstitution, Lecenise when the Other is in an exected state diminishes its Excitability. Thus all flimuli we know after being long applied, looke their former of exeiting terration, wier bring example but to its havitability

Comment of the server In the l'in The Right was free for eth to be be the the the start of the state the state of the the i i difficult and (m) de Liberthia in hel is it en Photosia ? mineral La 的 一种 with all pale lui Come to the them

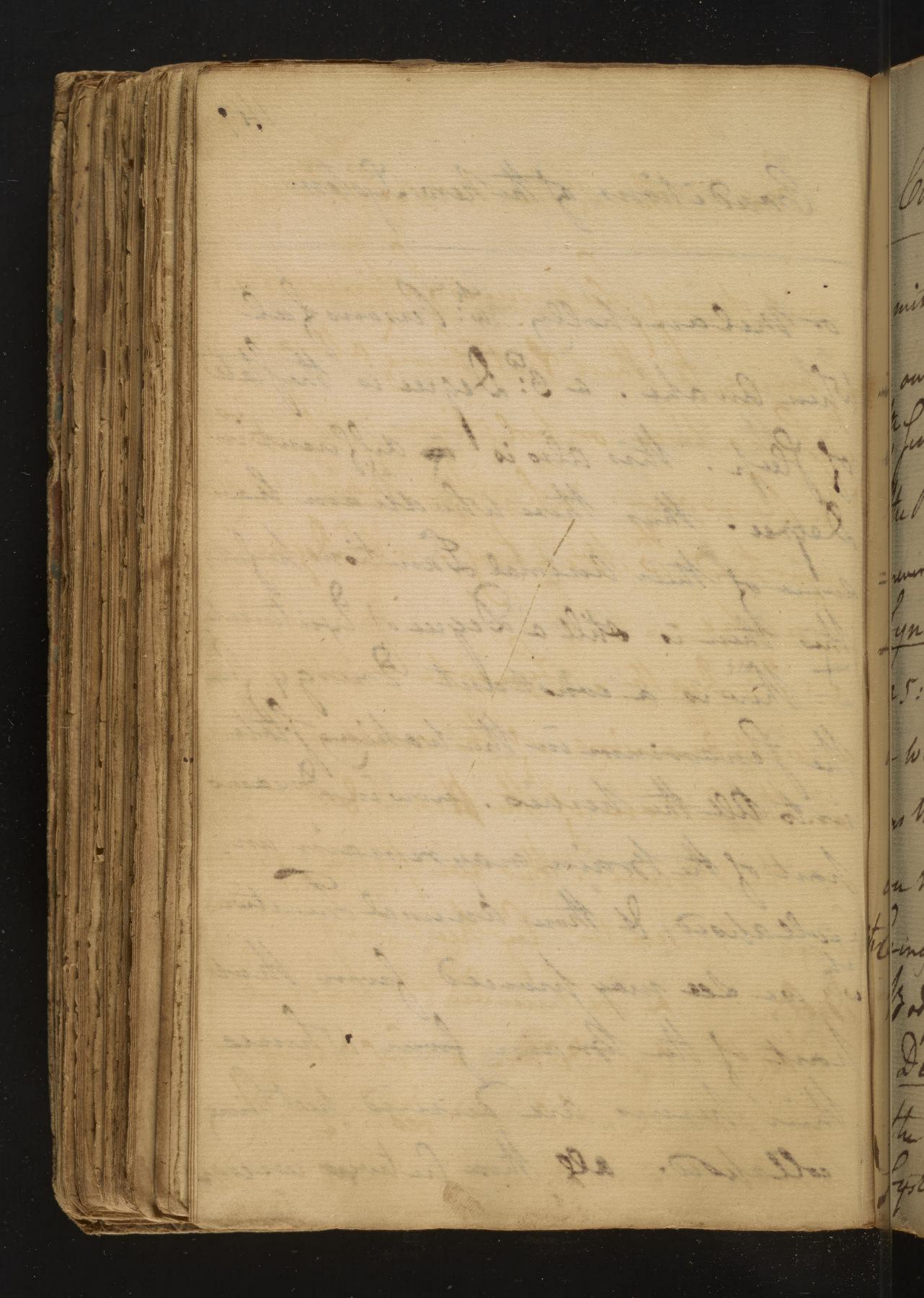
Conditions of the how System being destroyer. how all Funise Whether of brody or triind act in y fame mannen. This in my Opinion solves The Difficulty we phoposed. Whatdows working defend on? 1: on the ire enlation of the boton in the Grain, La surdinate Dynee of Finsion always husping the Other line anesisted tate. this Is the Meason why an energe and aution of the Heart, on coo Feet frevent flush by determining, too much bollow to the Brain. There is another lause of fleete wi was did not mention viz: Steat. His when encuend by ond be actarpoporifice

· Copper States of the state while the state of the state of the state of and the court of the transfer hing the terms of the second of the : ibu (a) the Excitement in this Passiso o

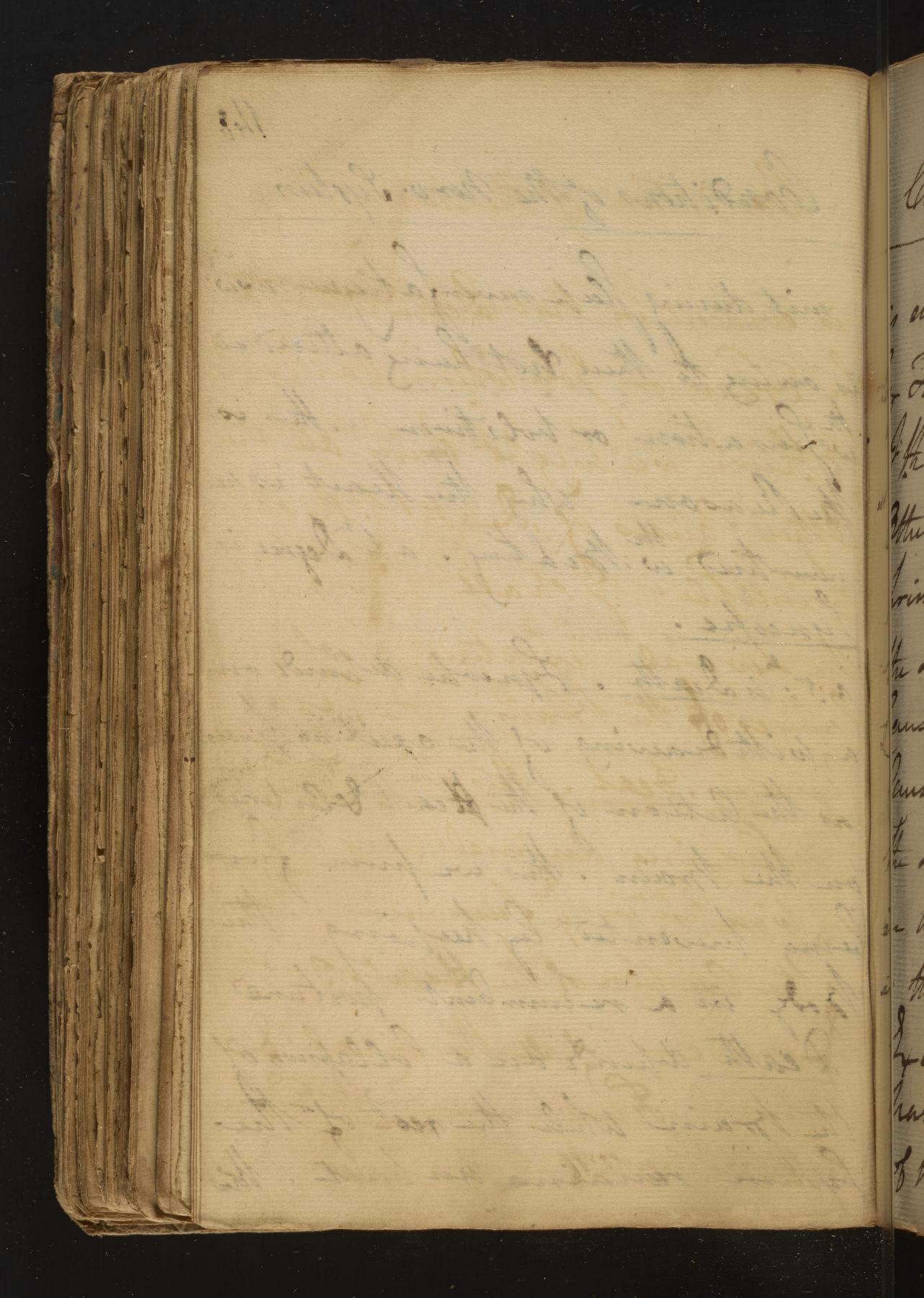
Consitions of the hero: Tystem ei then by taking of Jension, and lessing the generating power of heat in the Blody, or by acting for the Surface of the Body and by Leviving Holow from the Hobain. Letus now en quine into the diffirent Deques of 24: eitement in the Other. The highest Degree of Excitement is in Manines. hume thing Readigious Strongth, & thin pati: : ence of bold of this is the most opposite Deque of Heiterment to fleet. The 2: Deque is y : w: Occum in the Ordinary State of bahing. This Depu may be Lubdividd Several times hording to the bigor oralebility Givety, or



Conditions of the hero: Lystem or Melancholly willersons ful When awahe. a 3: Deque is the tate of fleep. This also is a difficunt in Degree. Thus there who dlearn have Some of their animal Tunitions perfect. this there is still a Deque of Existement. I there is a constalut Energy from the fensorium in the waking Plate into all the herves, now in Dreams haut of the Grain may remain un. wellapsed, & thou an unal functions w: we see may proceed from that hant of the Brain from Whence their heres are during hothing collapsod. all those actives weren



Conditions of the Mirv: System = mit during flut nevergatique now: is owing to their hot huing attended the fun ation or bolition. This is the Reason why the Heart is he new three with the thing. at Degree is Juneope. as: is Death. Tyniche defund on a with Drawing of the oxciting from en as the action of the Heart & Centeries on the Grain. This we prove from being huvented by heeping the Hady in a recumbent frostune Death defunds an a Collapsion of the Brain while the pest of The fystem runaine un hunt. His



Conditions of the hero: Tystem is evident in that Death wis brotton by Fear or Joy when in an tyufs. Thinh we might bring all the Other Pauses of Death to the dame principle. I shall now mention the Leveral exciting Leollapsing Courses of the Brain. The I exciting lans is Deat. This we prove from The Heeping animals being when in bine tin in & Summin. 2 aure is the Cuction of the Beart. 3: The Exercise of all the bital & hatural Functions 4: the Finsion of the difficent parts of y Tystem Defuns

then we with the sense set the April 1 September cal this is Somewhat do Stylul?

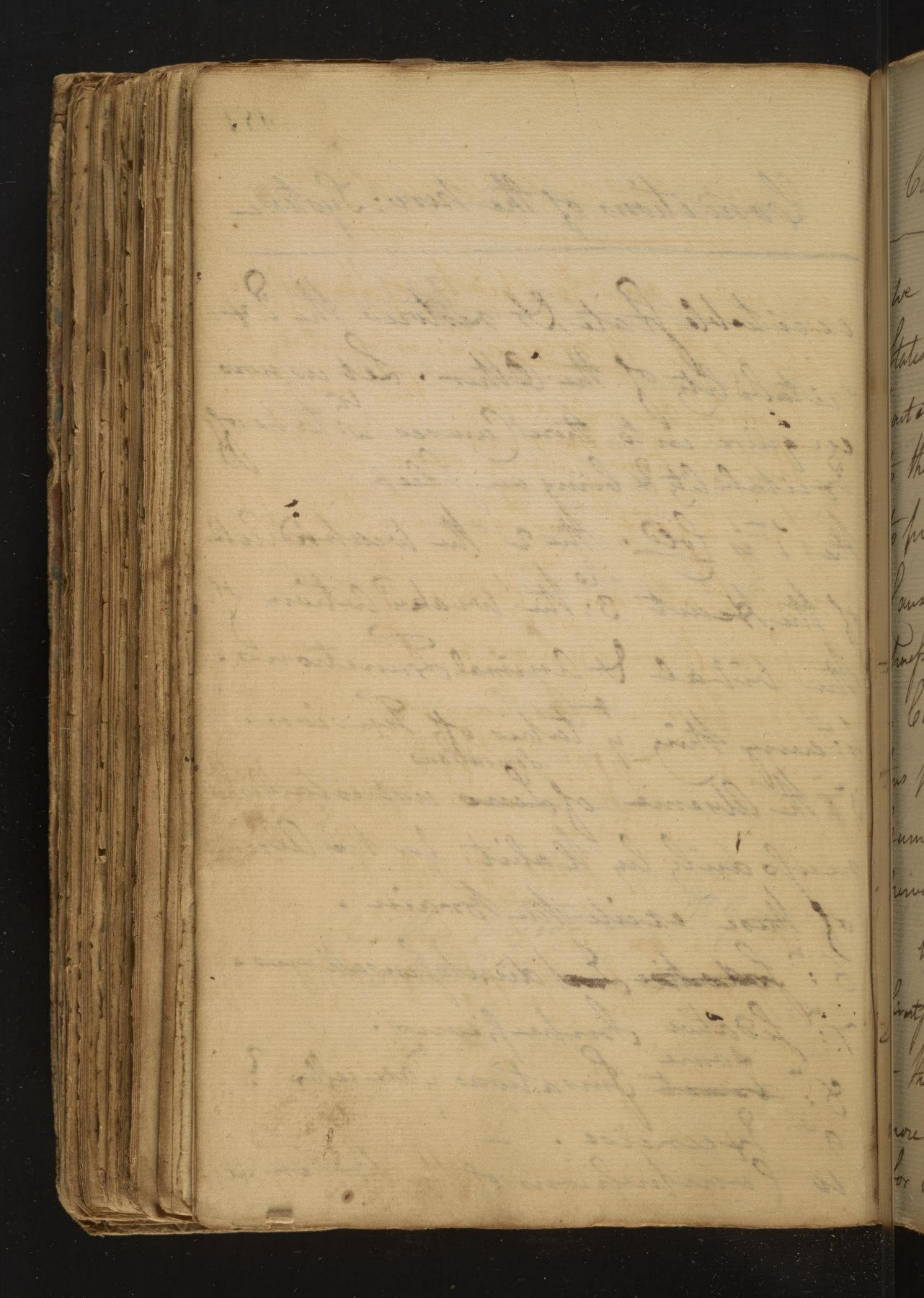
Conditions of the hero: Lystem either outhe folis on thends. This is evident from the remarkable Effects
wi the housion of Lower One haut has when rendered tense by a full further as the seminal besieles.

as the seminal besieles.

as: fause is, all the fources of Sensation I mean direct finoations there we are attended with pleasure or pain. of the Grain altho to explain it. a 8: exciting Pause is fleet. I said before that waking is a state of biolence, hept up by flimuli. now fleet must the Lystem into a mone

110 commentations of the while the within our thing of the in ru to my the administration of the se ita me of charmer than The same of the same of the same as the dominate from are the feet from a time of the livery My the Committee of the said : hu ·h and the Ray (a) before this fuly est see D. Gaubius \$ 523. & \$24

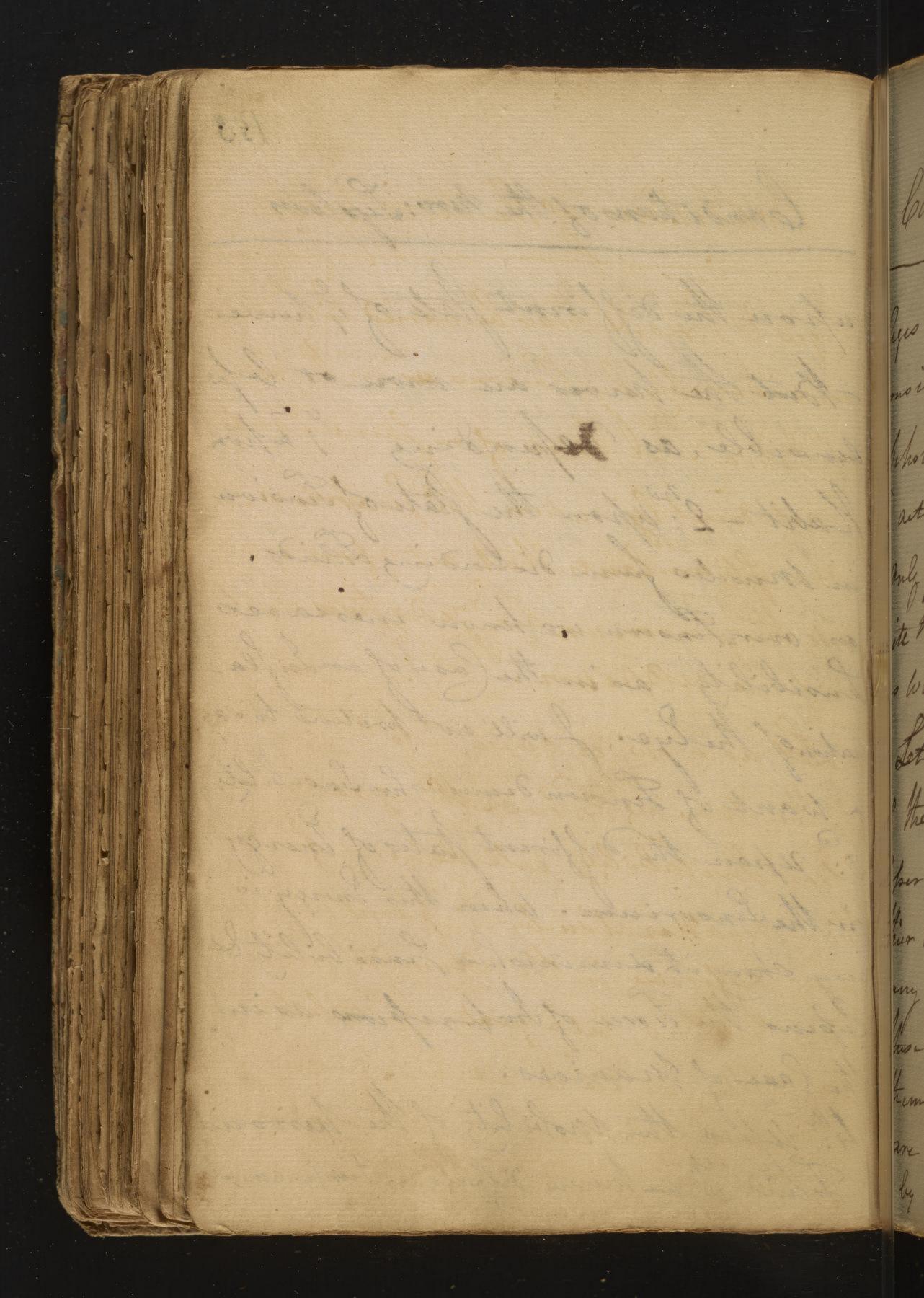
Conditions of the huro: Tystem excitable Hate & nestores the 24= enquire into the Courses witaherly the i'm fold. The breaked Cuting of the Heart 3: The weaking action of The bital & animal Functions. 4: any thing y takes of Tensions 5: the alyence of Lesso not established newfo arily by Habit, for the altrene of Hase excite the Borain. 6: father diet furations. g: fedative Surpresions.
g: Louis funsations y arrerester? 9 Huneise. to Compressions of the Brain . (4)



Conditions of the hen. Suptem. be come now to shear of the diffirent States of the nerves as inveloped in their particular membranes. They are liable to the lond it hans of being more or left fit to propagate motion. we know of no Courses that can influence these but am: - profision from Jumoss on ather auses. - Comprésoion may vary considerably de thus produce difficent Effects as in the humbrels w: arises from compressing a herveand in a total Compression. he go on to Speak of the dif= firstflates of the fentient Stremities - These are greatly varied, but defrend. more whom the lepharatus contrived for veceiving Impresitions than

Contraction of the property he come now to affect to of the sifferen ho the of the state of the Bin hard sender present bearing. the nou orone phone of wind porch alr to final to a factor their times M muses that care influence in n o the second of the second was from nois - Com preferen may - whing peroduse definite There's as wa a 2 1th

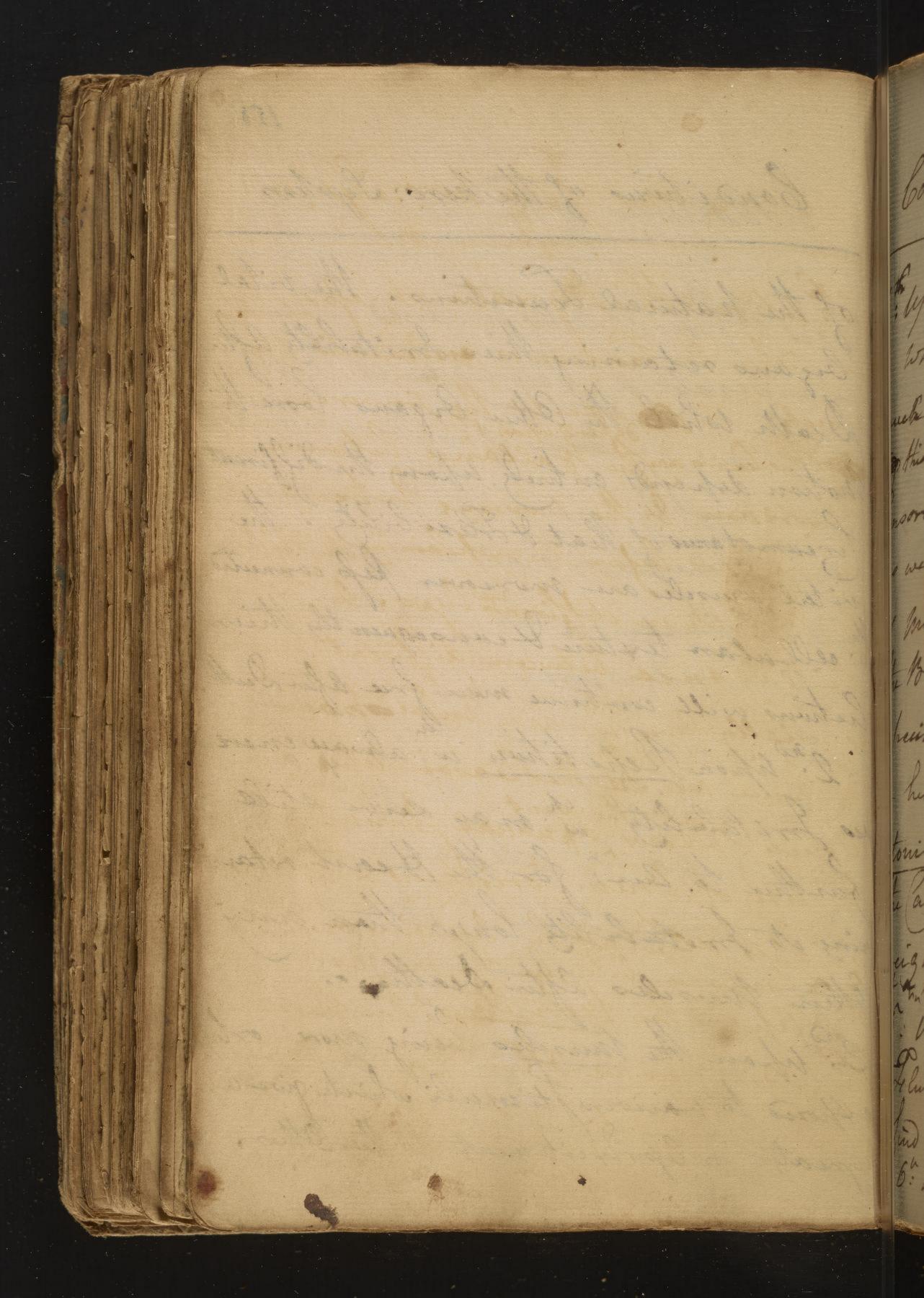
Conditions of the hero: Lystem upon the diffirent thate of y herveo, - But the horses are more or laps Sensible, as Depunding I whom Habit - 2: whom the State of Tension in muscles from distending Libinds. en overstension we know inereases Tensibility as in the Case of andingla: mation of the lye. I will not pretund to say a hant of Finsion deminishes Insibility. 3: Upon the different states of Energy in the Linsorium. When this Energy is very shong it diminishes finsi bilitele Epens the Force of Junt pepions as in the Pase of Manines. 4th Upon the Mobility of the hervous Felind w: we know differs in Fempusaments



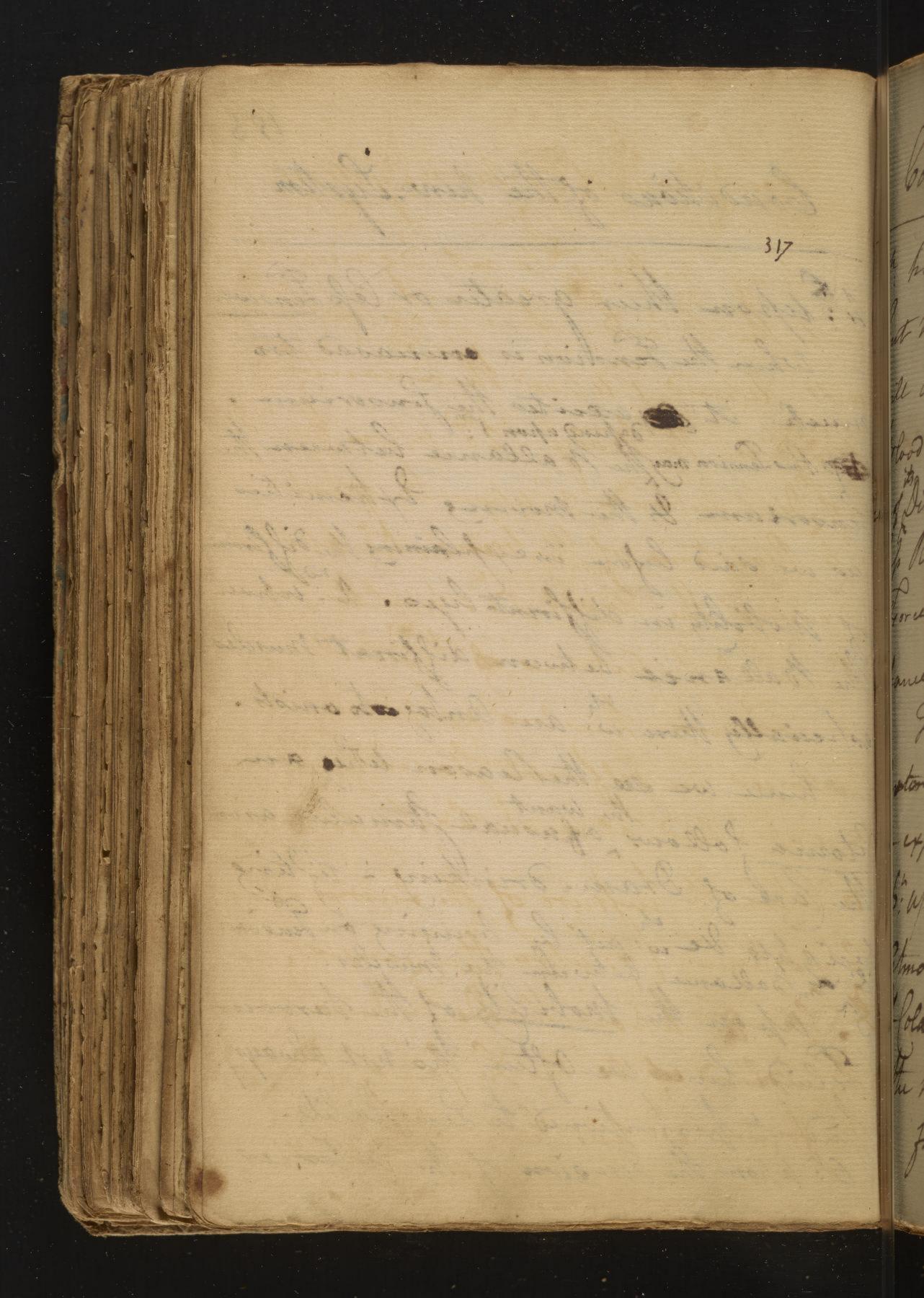
Conditions of the hero: Jystem ages & fers, & may be varied likewise considerably by Poisons as in the Hydro. - Schobia. Whow of no fline lants y act directly whom the finorium, the and Stimulants that actupour or ex: : eite the fensorium are Jedatives duch as wine & Opium. Let us now enquire into Andonditions of the throwing Tibres. Their greater on lefrer dritability will defriend finithefun Thur Breanization by w: fdont understand any difference in the alternate Tilms of Thus Inuscles, but a quater Initalisty of them. This we see in all those puscles w. are moved involuntarily, It is oceas ioned by their formed Looner than the Organs

tropations of the work of the th is Estates, the may be mained the idenself for love our see in the hya the dead of my flower of grates fiat . 1. 1 . 1. 1. y ant hintery when the former, the two duly phimulasty that astupon is a irun with the four original and property the the ital as love Wellerman twee the opinion serves 100 mon 100 100 100 The true of the first of the fi Sistable with west on the

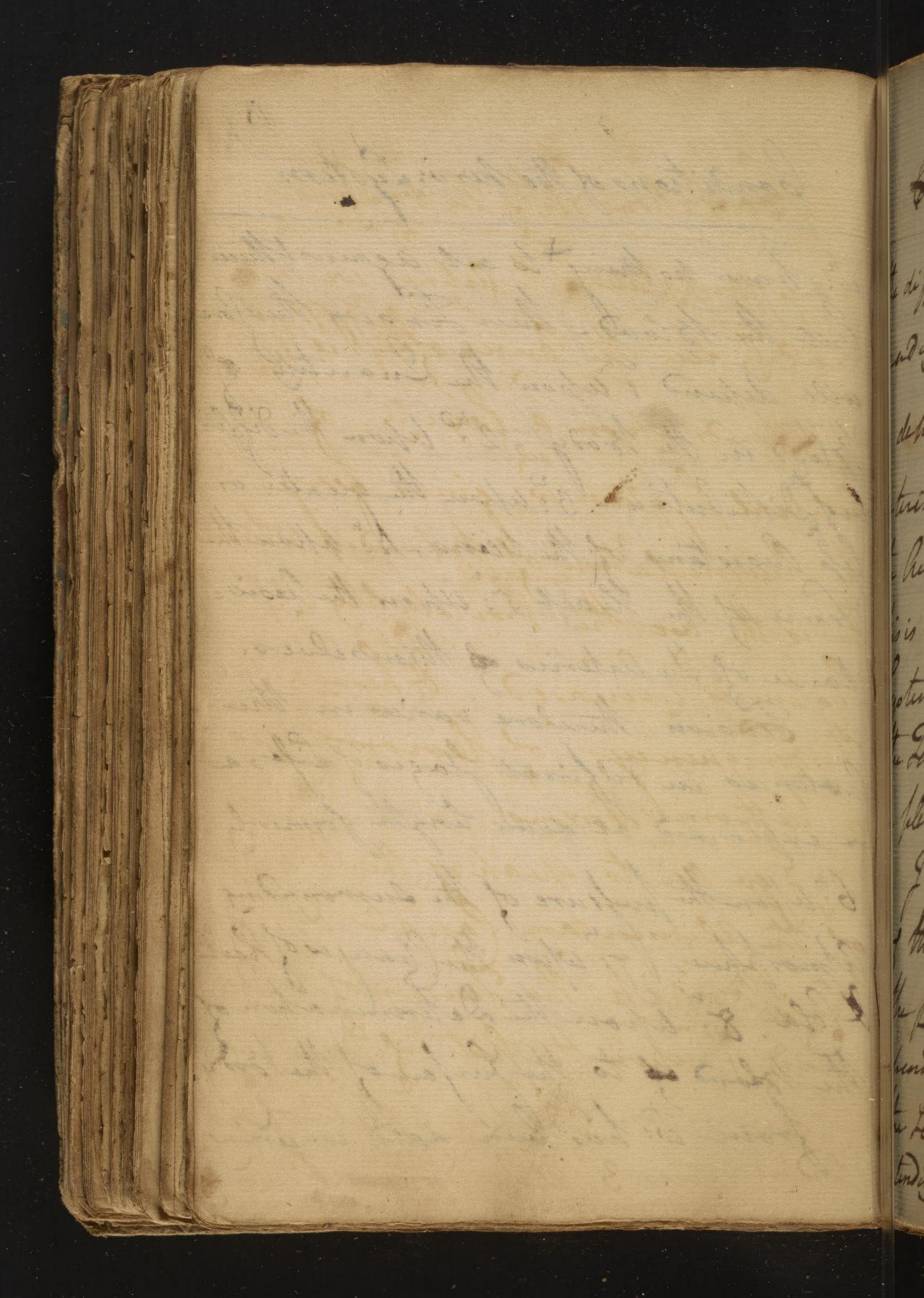
Conditions of the hero: System of the hatural Teunetions. The vital Engans retaining thier fritability after Death while the Other Organs loose their motion depends entirely whom the diffirent Tireumotanus of Reat & Flexibility. The vital musiles are moreover Rep connected W: cellulan texture & consequently their lutions will continue more free lifer Death. - 2: hpon Repetition w: always eneres The fritability wi may serve still further to Cur: for the Heart retain ining its fritability longer than any Other Unuseles after Deathy. 3: Whom the muscles being more orly exposed to various Itimueli which give a greater or lesser & citement to the Others



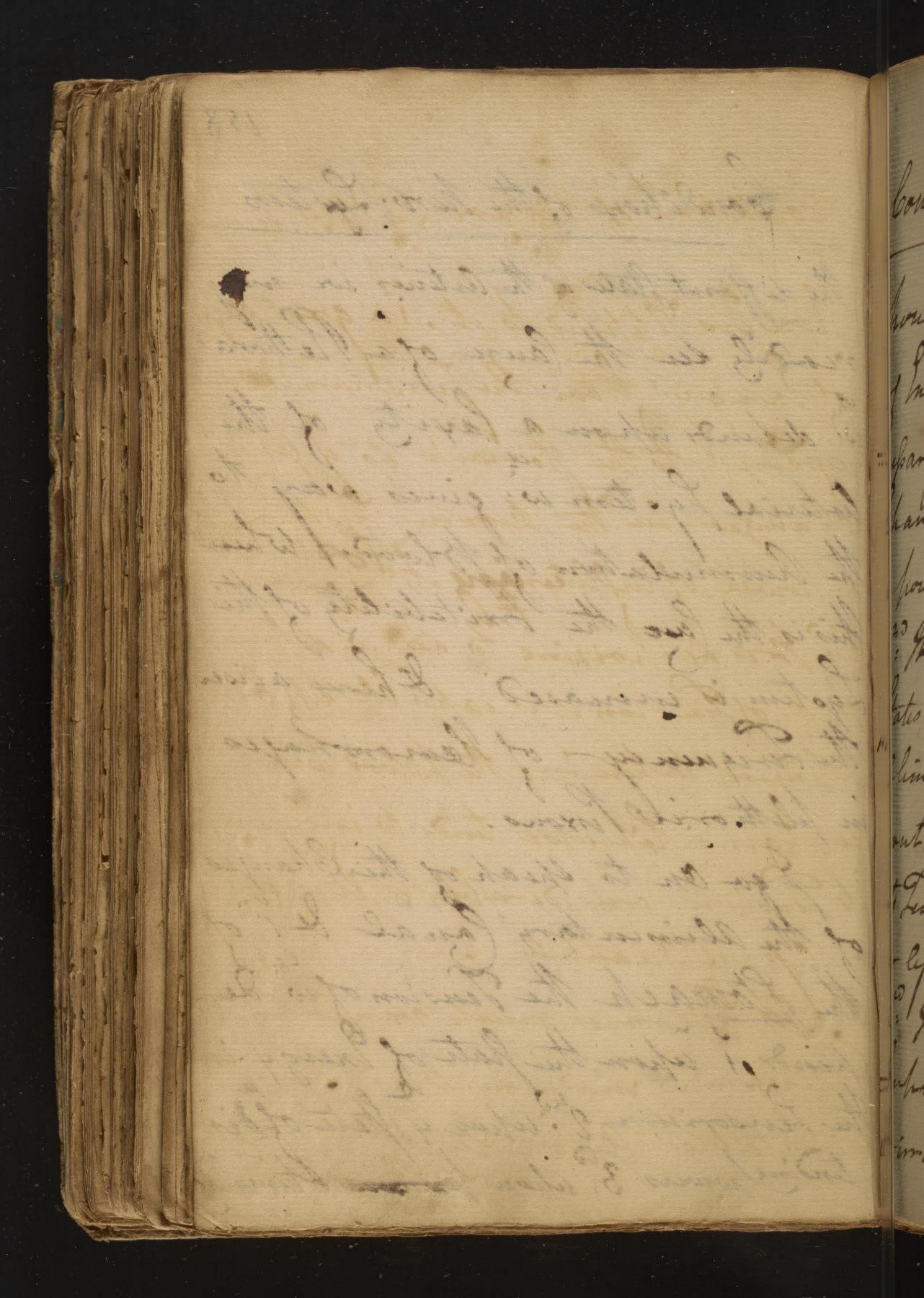
Conditions of the him: Lystem 4: Upon their greater or les Tension When the Tenstion is commased too much it Dependupon In function the Insorium & the moving of tremities as we said before in explaining the diffirme In brobility in diffirent lyes. 2: when The Ballance between diffirent murdes especially those wi are antogios onists. Thence we see the Reason when am Itoria follows of usual thin who as in the Case of Drawn - drinking - lifting beights de wi aut by bringing on Jension beights allance betweln the musiles. Lelind, hence we Often tho hot always) Jimo it proportioned to Lensibility. 6: Whom the Finsion of the autories



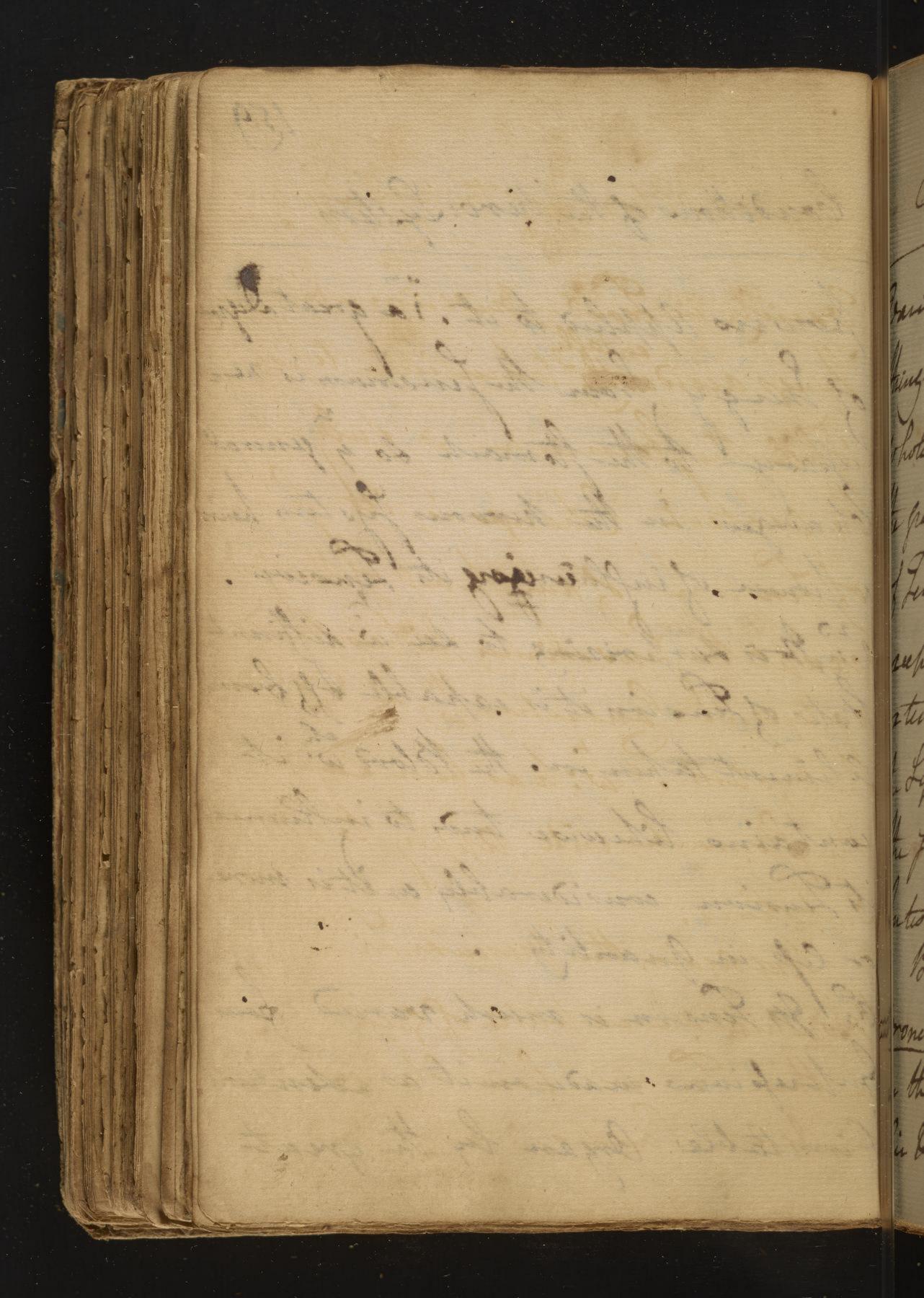
Conditions of the hero: Lystem in: have no theing to cut agains them but the bolood. Their Fins ion Therefore will defund i whom the Quantity of Holood in the Body - 2: before the diffic money Distribution - 3: whom the greater on Up Resistance of the beins, A: Whom the Force of the Heart 5: Whom the Resio: : tance of the arteries & themselves. Tension therefore varies in the Customies in diffirmt stages of Life; as we explained at dume ting the forming. b: Whom the pressure of the Surrounding atmosphus, To afron the Changes of Heat I fold. 8: whom the Determination of The bolows of to the furface of the Body. from wi has been dated concerning



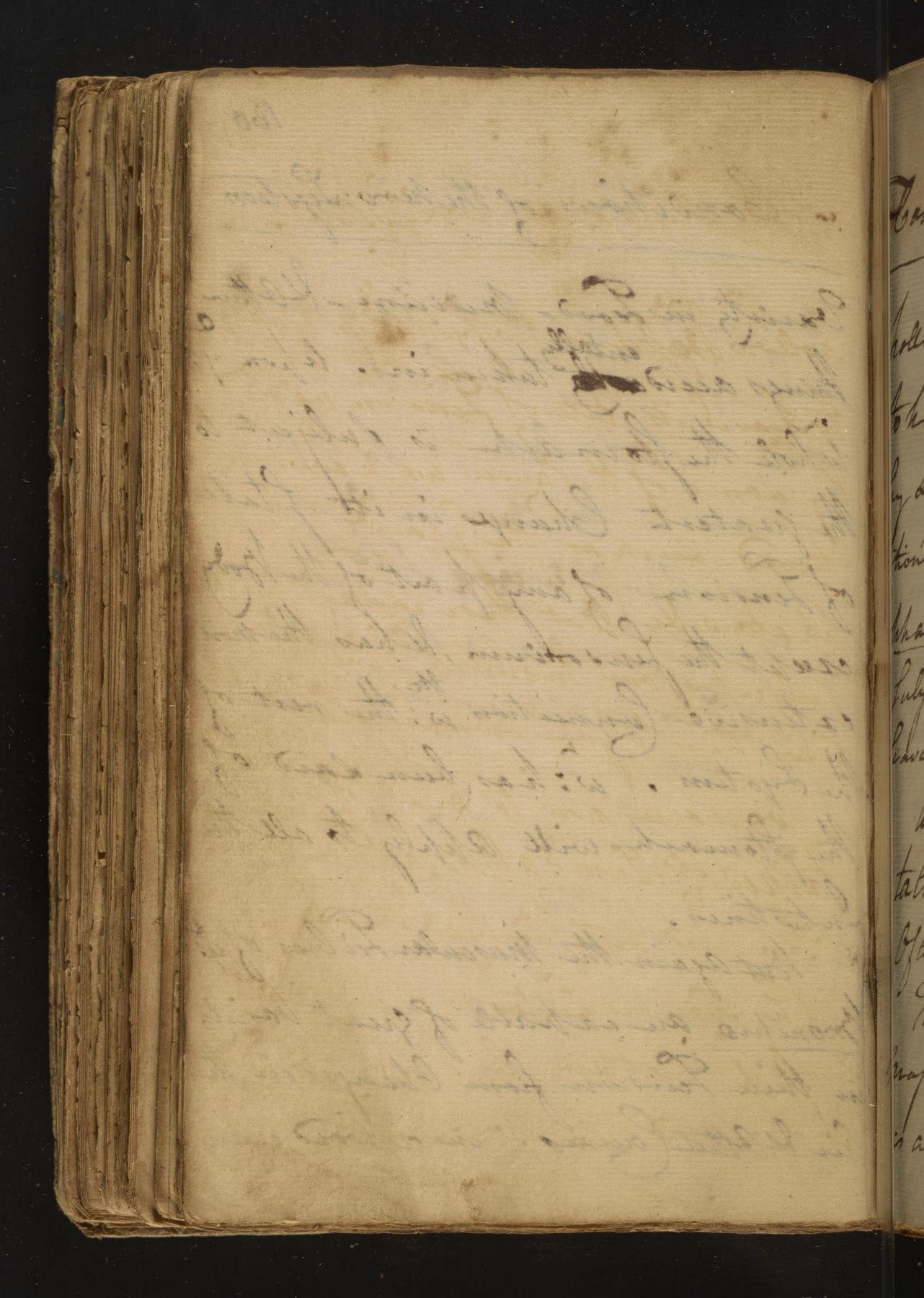
Sonditions of the hum: Lysteens The diffinit states of the artires we may readily see the laure of a Hethora w. depunds whom a layity of the arterial fyotem w: gives way to The aumulation of Blood. / When This is the lave the fritability of the Lyotum is unneased theme arises the Trequency of Homorrhages in flethorie Pirsons. go on to speak of the Changes of the alimentary Canal & of the Homach the Tension of w de-- hund I whom the flate of Inergy in the Lensorium 2" when y State of dis : tending powers 3: whom former Atumulate



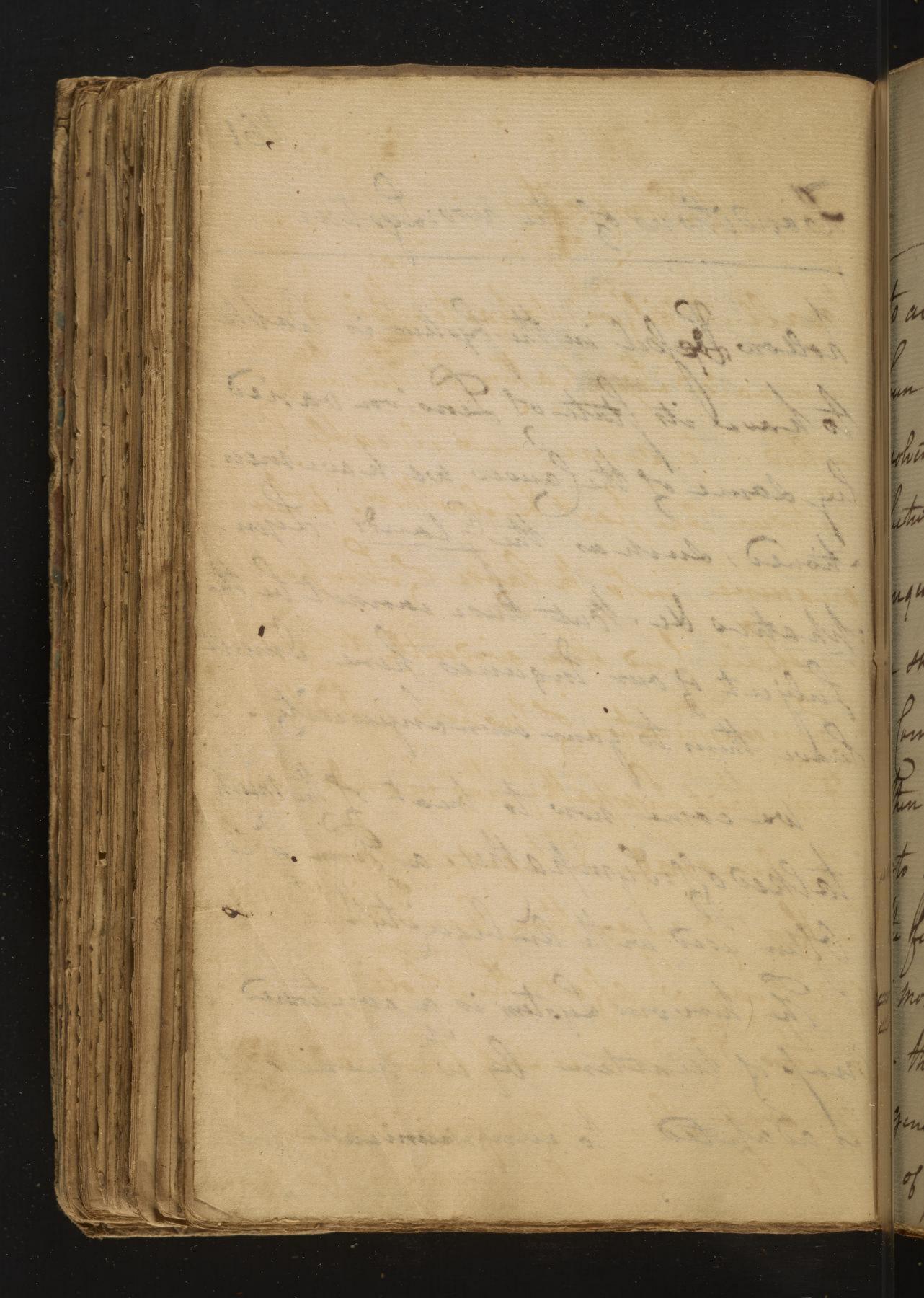
Conditions of the huro: Lystem powers applied to it. in great algue of hungy from the fundrium is ne · upary to the stomach so y juneral Changes in the hervous fystern have a pour of influencing its Lension. 2: This Aurhorising to her widiffinent States of Fins ion it is eapable of from aliment taken in . The Blood w: it contains likewise tends to influence its Tension considerably as It is more or les in Guantity. 3: Its Finsion is much varied from Interessions made anit as a Sentint Virritable Angan by the great



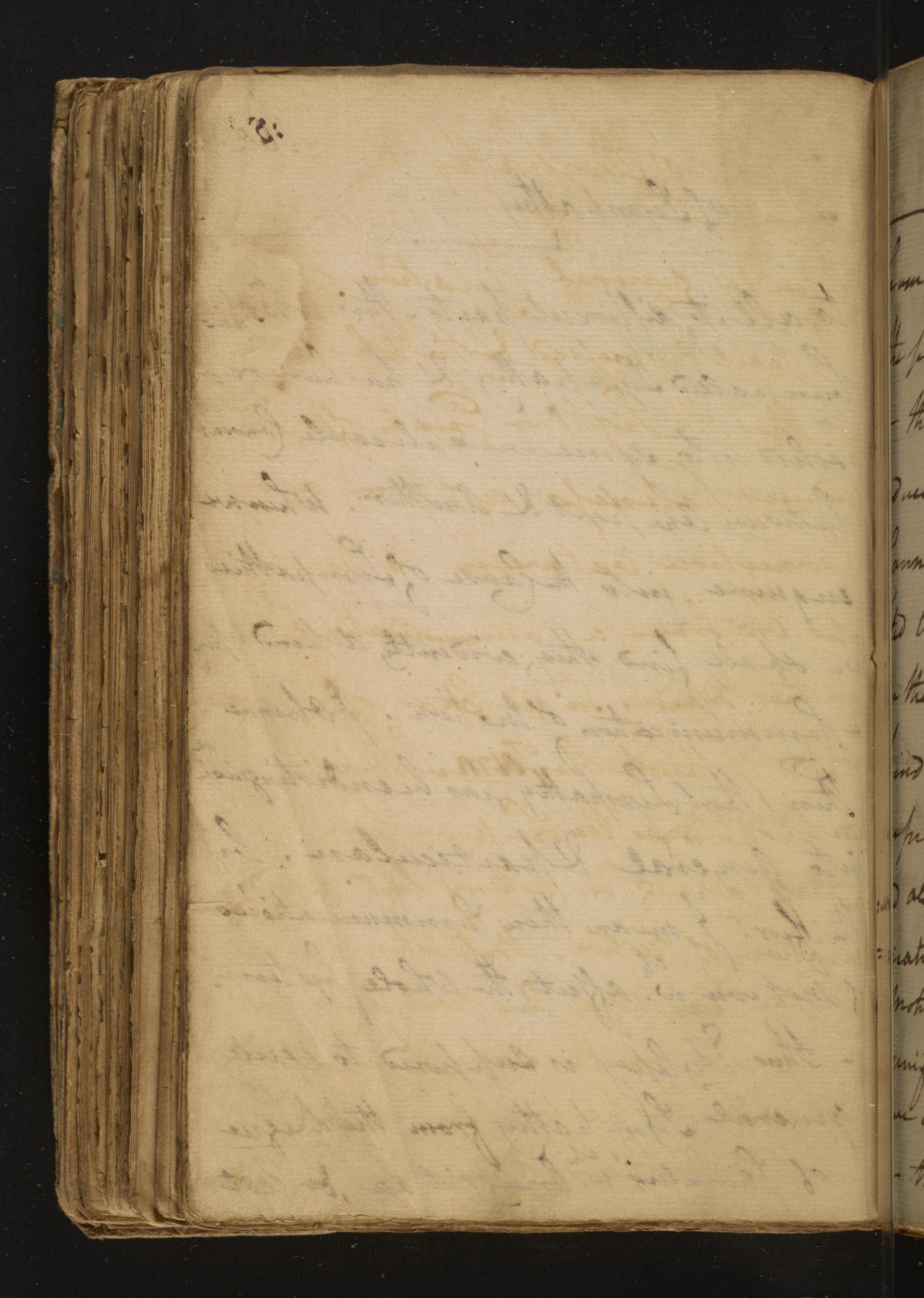
Conditions of the here: Tystem Pariety in Lood - Midiane - Hathing Hings accidentation in . before y: whole the Hounach is Sulyest to The greatest Change in it State of Tension of any part of the Body except the fund ordina, I has the most extensive Emountain withe rest of the Lyotum. wihas hum laid of the Homach will apply to all the But again the Musicular Files of 4: Pronchio an eatrable of great banity in their Fension from Changes in the his & Ather Courses, in a word every



Canditions of the hero: Lysterer hollow deploch in the fystem is tiable to have the state of Lension varied by Same of the Panoes we have men. tioned, Such as the Glands - Lyn, : phaties de But these connot be the fuljut of our Inquires here. Imut leave them to your own Injunity. we come now to breat of the much talker off: Tympathy. a firm g'is Often used with ambiguity! The here ous Lystem is a continued majo of matter by wi means it is adapted to enminerate Inotion



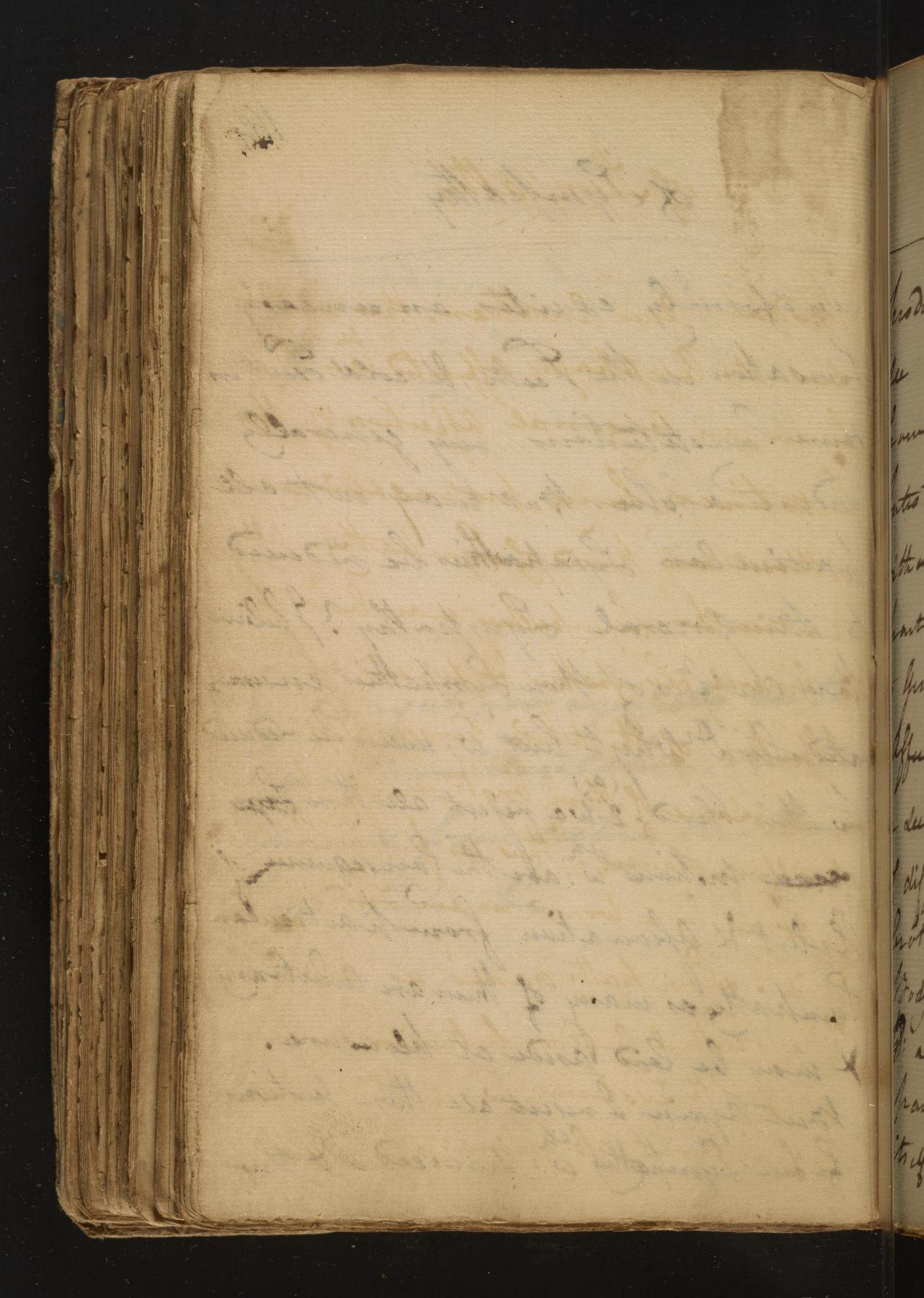
162 of Lympathy to all its different parts. This is wi has bun ealer Lympathy, & has hum re: . solved into came inexplicable Comment between One front & Snother. Whenve enquine into the lause of Sympathies we shall find they evidently defrend him a formanication of brother. Foluerue Then that Lympathy has been distinguish into General Kharticulan. by The first & mean thou farmmunications t of motion wi affect the whole poten. - thus Whilefung is Dupposed to excite general Ifm pathy from the degree of Itimulus wi brings it an , & not



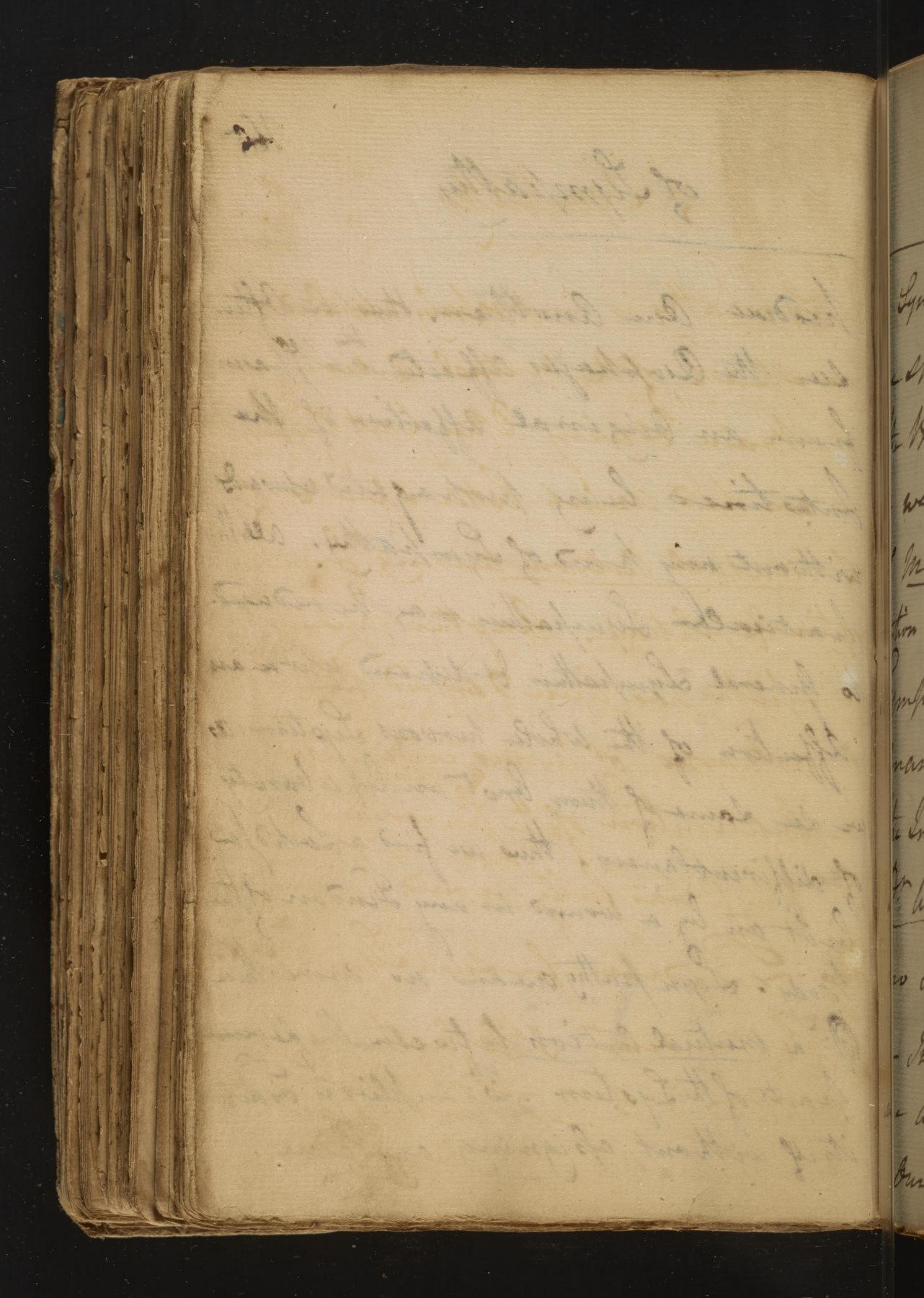
163 of Tympathy from a general Relation by asy The fant impuessed Whe wholes in - thus the Fight or Truck of a Justin induces l'alineso, not from any Connection between the putsliffers : tid but fram a fammunication establish in the Brain, in all Cases of this to kind the Tarm Lympathy is in propen, as the Frants ar have mentiz med all depunds on hothing but a further nication of bution. But when her see motion excited in an part auly pretty uniformly by the Lamounterspien we call this particular Lympathy. - thus the tider of the a Tile very

in were finished fill actions to just comprehend he the The state of the s where the district of the tipe of amentalism to fine the second of the 12/1 & nejet from Lympothy all there Warisch frum Smitation, Suchus youring from Seeing anothers

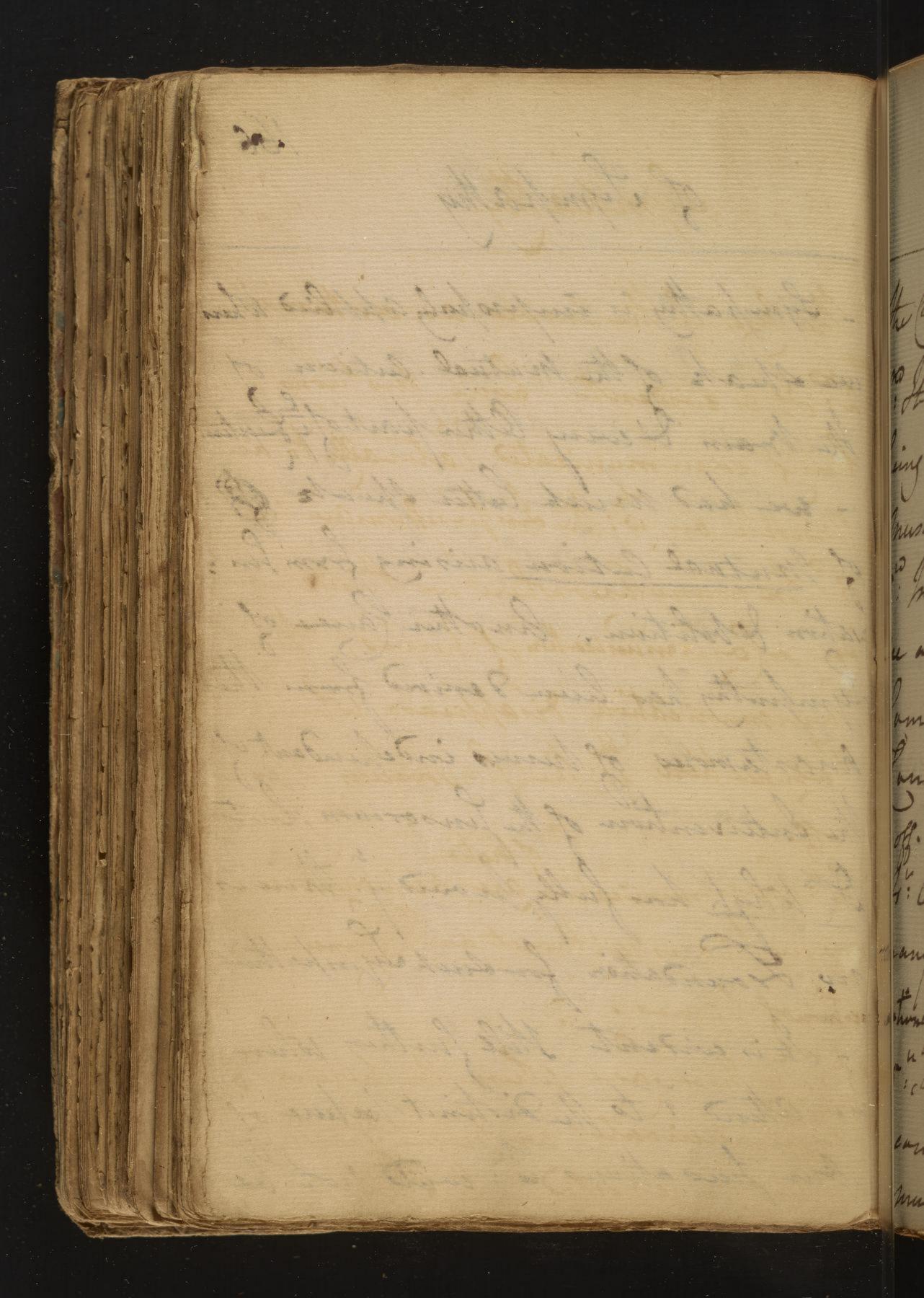
of Lympathy uniformly excites an uneasy find ation in the Facts, & cold desit in tome vustitutions my generally induce afolie. But may not all particular Lympathies be neduced to the general dympathy? I believe There dre for of thou Lympathies ensure rated by Deblyt but wi may bund to this head. 2: we reject all those Ligares 14 Redit & Afraciation from harticular Tymhatty as many of them are arbitrary X may be law faside at ble asure. But again Injut all those bustions from Lympothy w: Luciced & thus



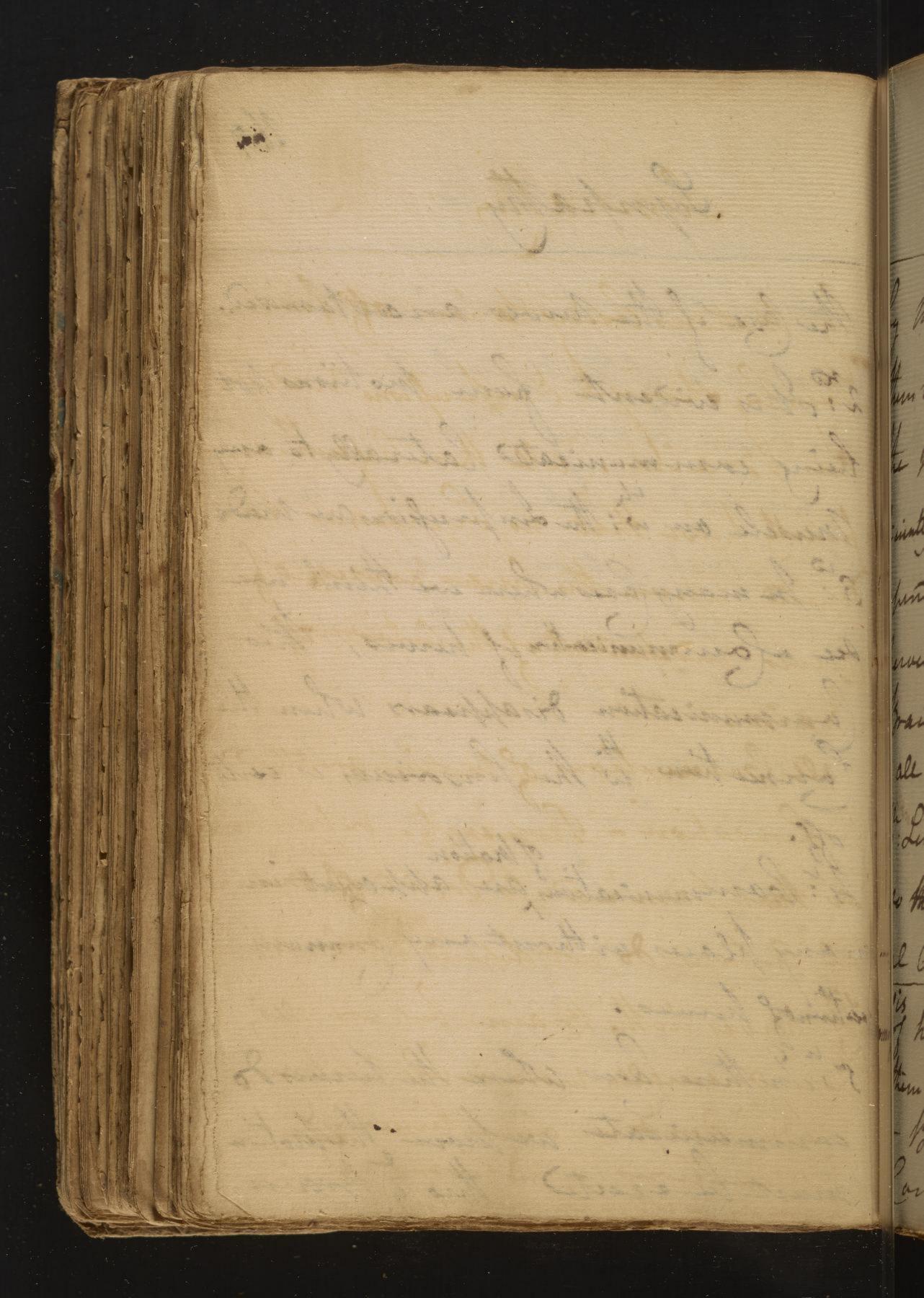
165 of Tympathy produce One another. thus we often bee the Brophagus affected was glassom from an Original affection of the Intestines him from agated whowards without may him of Lympathy. all the particular Lympathies may be noviced to General Lympathin & defrand whom an affection of the whole hervous Lystem , as we der Lame of them boot on by abaruty of diffirent fanses. thus we find a Loch of law brot on by a bound in any Lindon of the Tody . Lympathy means no more than 1 a mutual action between the Leveral frants of the Lystem . w: implies y deat itiel without assigning any lause.



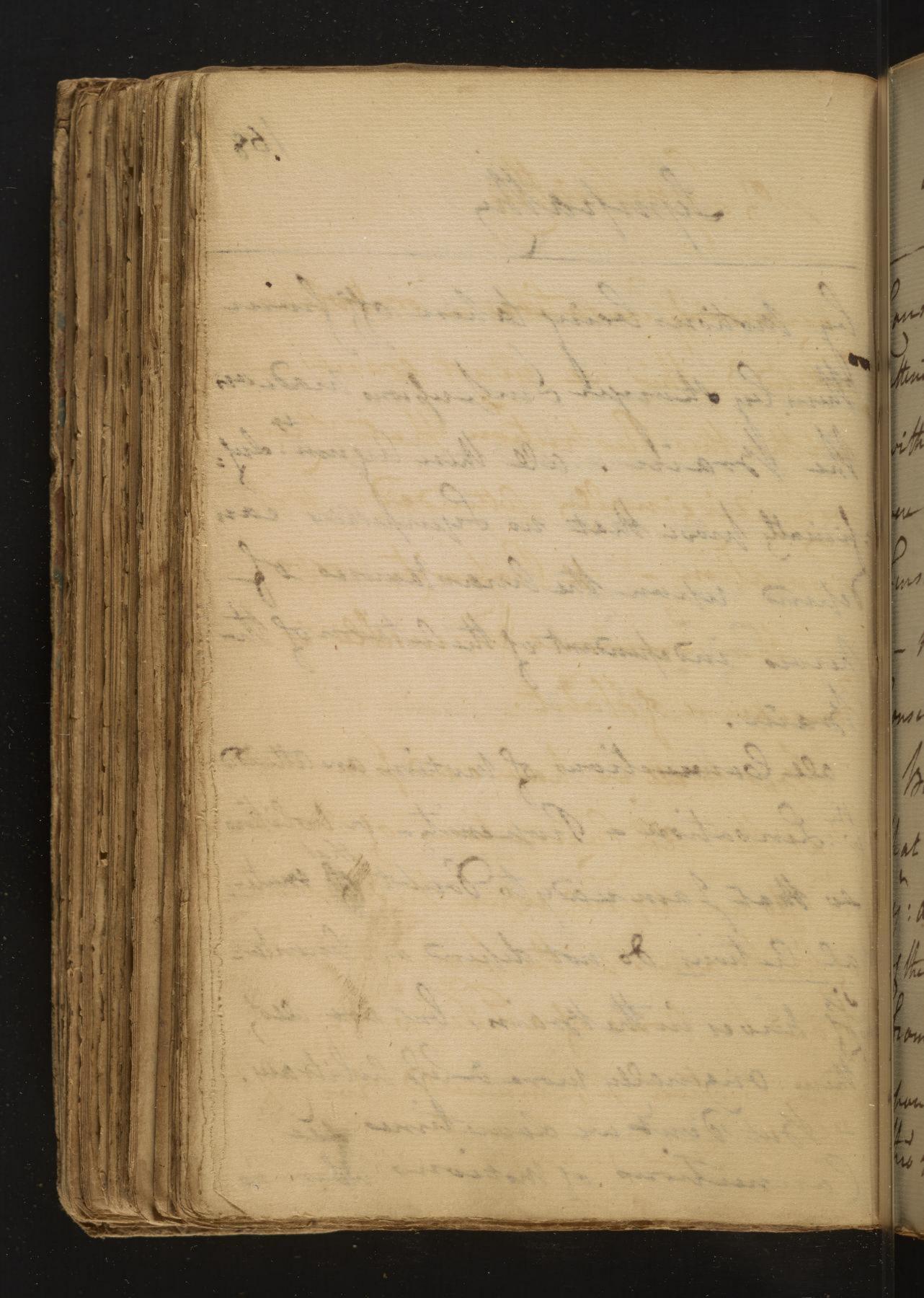
166 of Tympathy - Tympathy is impropuly applied when we sheak of the mutual action of the Brain Levery Other part of Lysten, - we had wrich botter Should of mutual Cution arising from fin: Hation Sebolition. Another faces of Lympathy has been derived from the hnastamores of humes independant of The Intervention of the Jensorium, but It whigh hai fully browned y: There is no Foundation for Such Tympathis - It is evident Still further when we attend I to the Distinct hature of Our funsations is: would not be



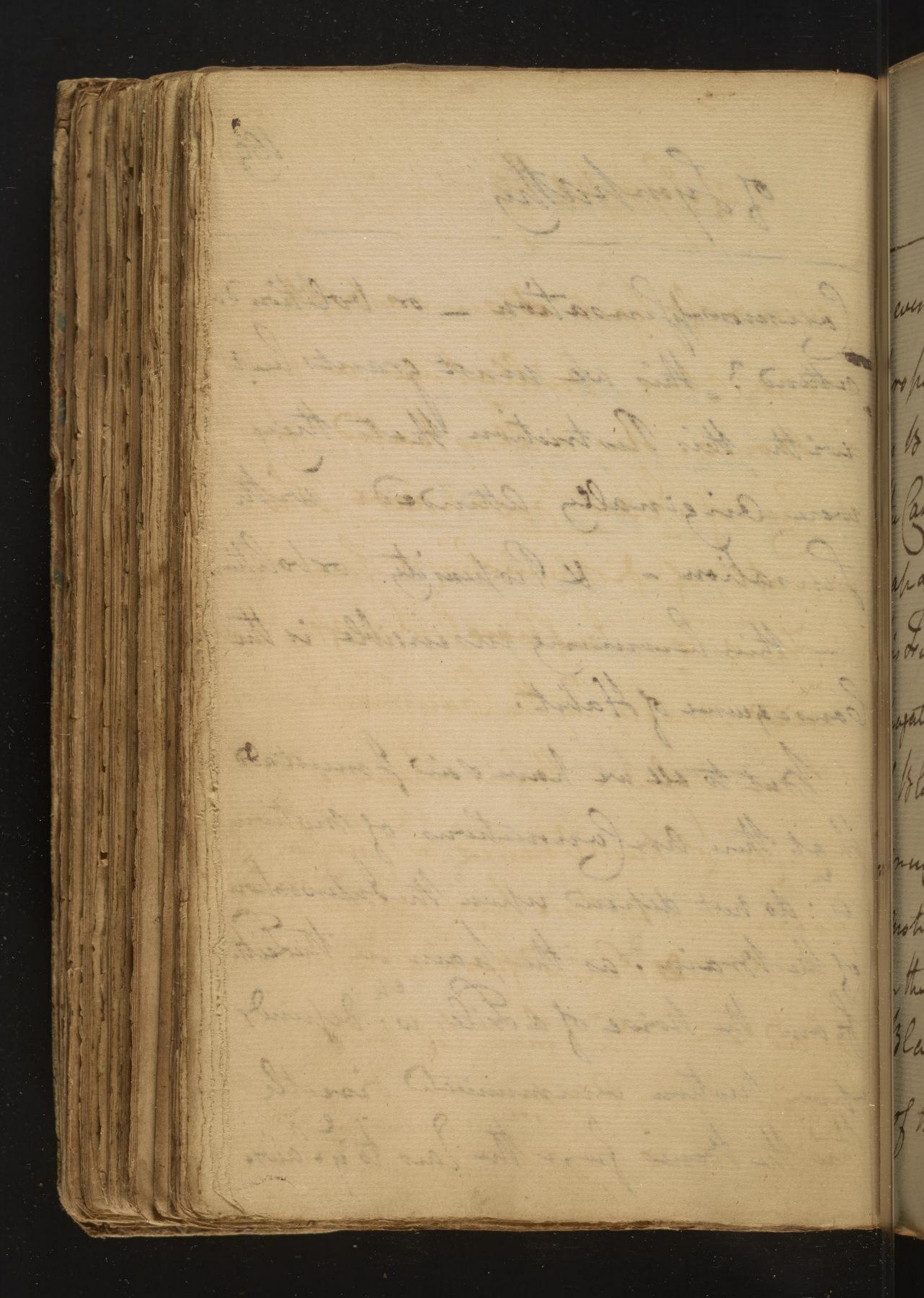
169 Lympathy The lase if the herves arrais tumored. 2. It is evident from motions hot being communicated laterally to any musele on with In Impressions are mude 3: In many faces where we think we see aformanientin of house, this Communication disappears when the Towner how with funsarious is cent 4: Communications are abhanut in many places without any communi: estimos homes. 5: In those are when the horses to communicate we know the Motion must be excited this & Brain



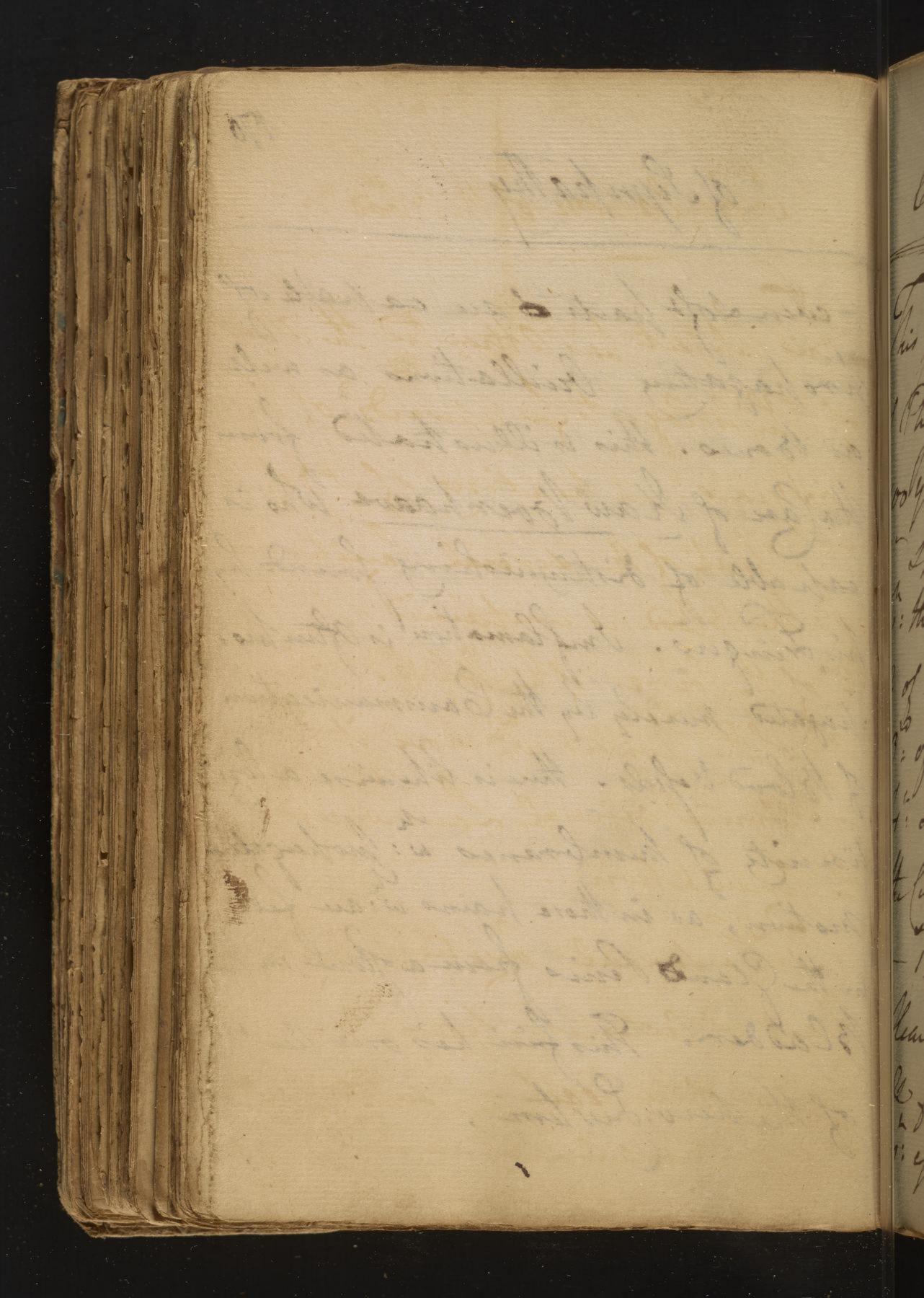
168 Lympathy by motions being taken of from Them by stronger out repions Tradeon the Brain. all then ayum: Ly: : fi winth prove that no Tympethies can define whom the anastamores of herves independant of the action of the all Commentions of brotions are attended W: Linsation - Propenty - or bolitions so that Jam way to Soulet & mutin al actions do not defend on linenta; mod herver in the Brain, but are allof them originally more in life hebitrary. Connections of motions when no



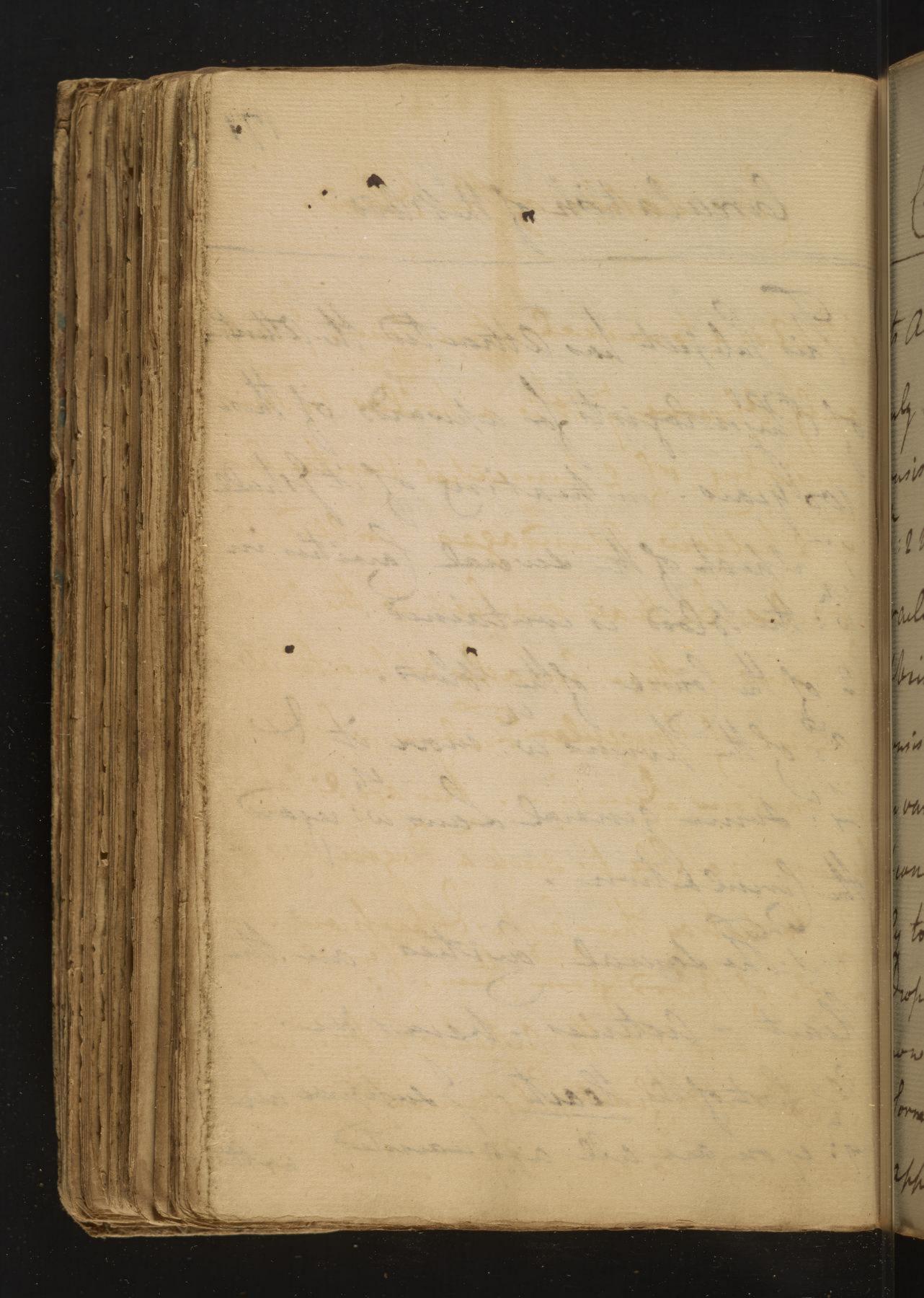
165 of Lympathy Consciousefernsation - or bolition do cettend? This we must grants but with this Restriction that they were ariginally attended with Jursation - & Propenity or bolition - This becoming insensible is the Consequence of Habit. But to all we have dais fimustado That there arefuncations of motions 4: do not depend when the Intervention of the Brain. as the pain in Therethe from the hoise of a Trile, w: defunds whom hotion unminicaled directly this the Bones from the Laws to y Jaws.



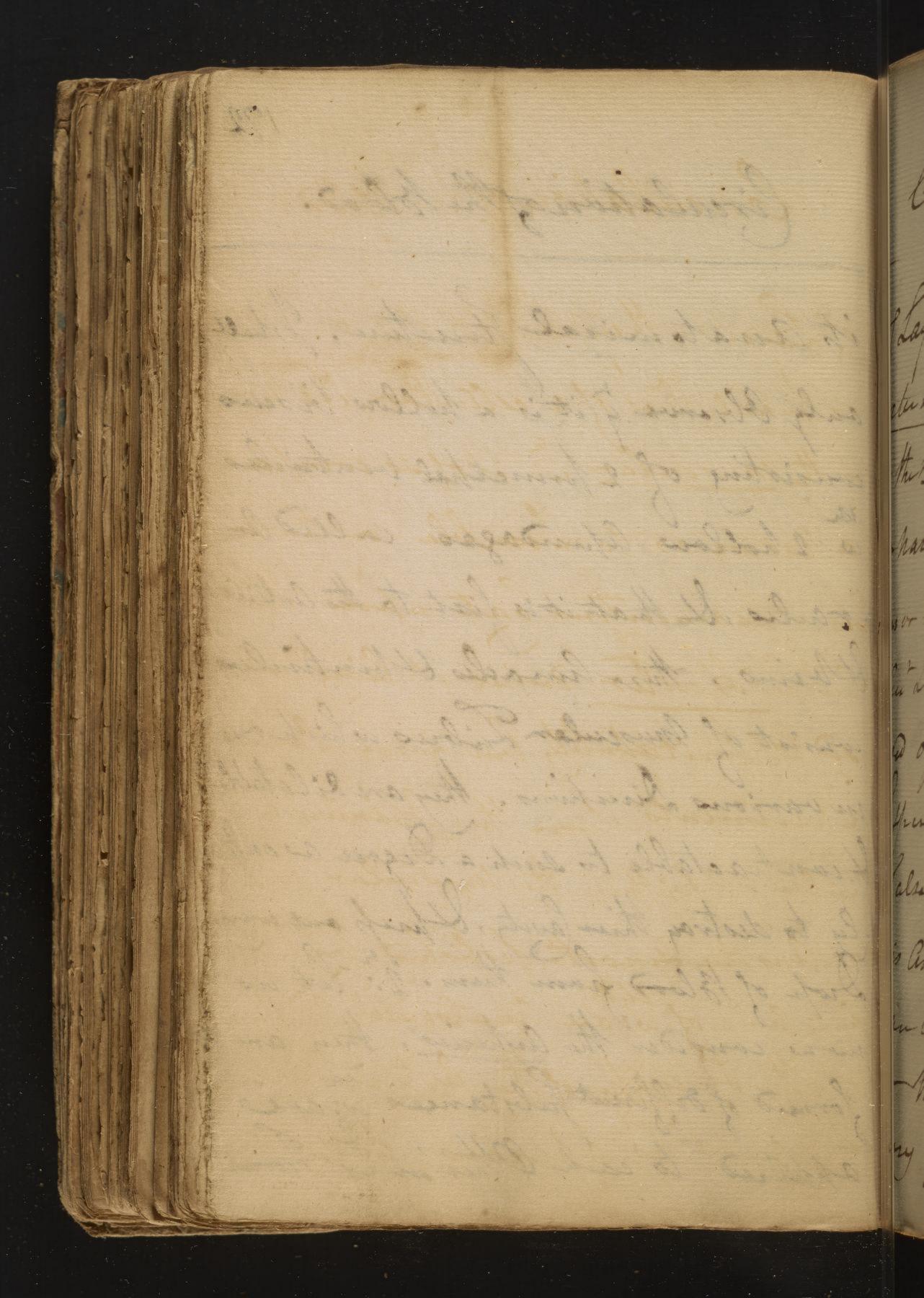
of Sympathy - even doft parts & au capable of propagating Prillations as well as bones. This is illustrated from the lase of Kaw Vooer haave who is capable of distinguishing founds by his dingues. Imflamation is Atunho: : pagated musely by the Communication of bolow begleds. There is likewise a logs. timuits of humbranes w: propagates motion, as in those pains wi are felt in the Clands Penis from a stone in the This finishes our aux Bladden. of the hero; drys tem.



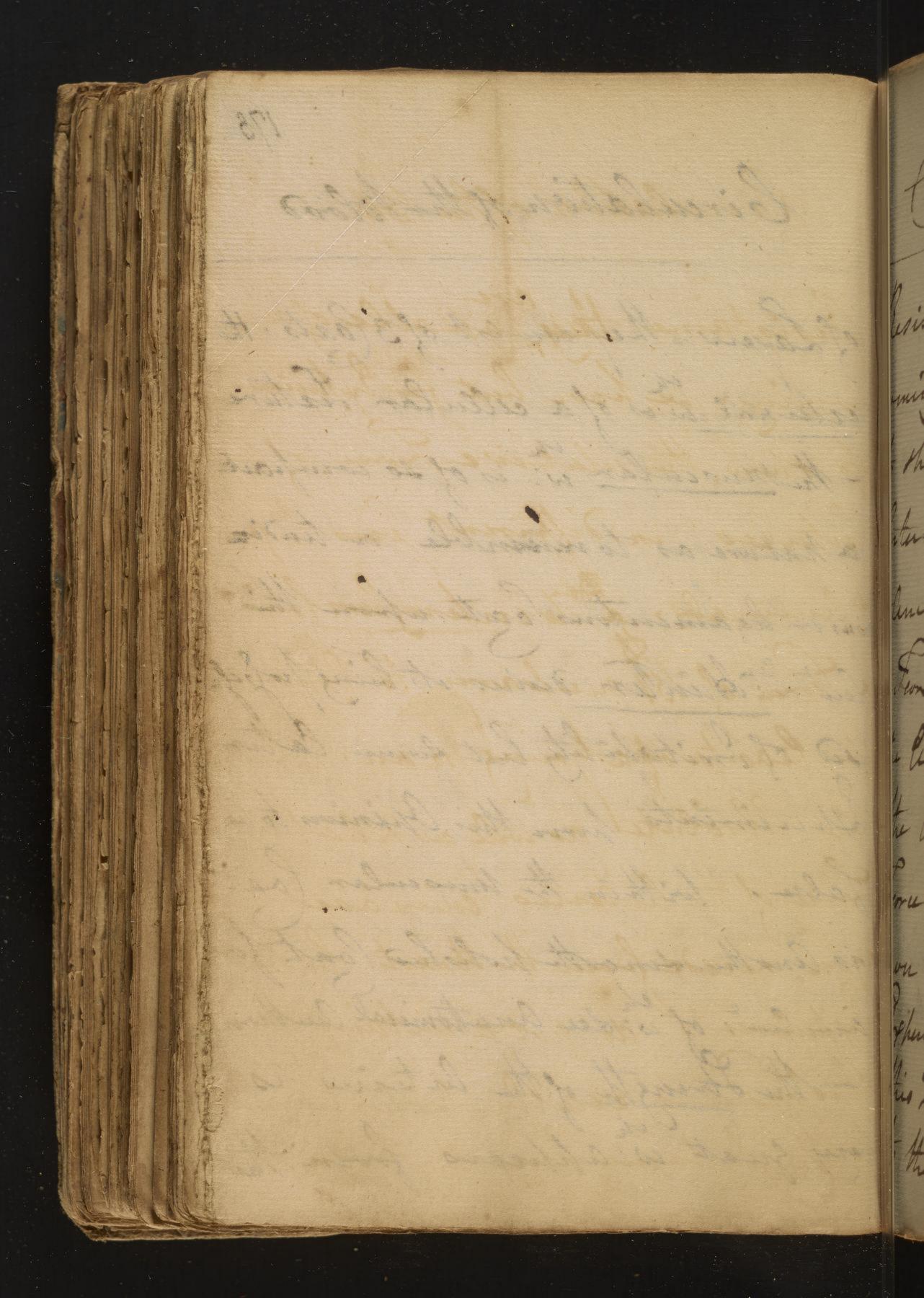
Circulation of the broom This Subject has attracted the attention of Physiologists for apwards of these wolyears. in heating of it Ishall w: the blood is contained. 2 of the fourse of the Blood.
3: of the fouries w: move it be 1: Sume general Laur wingand the firel thon - 1: The Lewis and Switter and the Heart - activies - heins de. L' first of the Heart. I supprise here 4: you are all arguainted with



lireulation of the Blood. its anatomical structure. Ishall only Observe i it is a hollow biseus consisting of 2 principal buntricles w: 2 hollow apandages unlled An - vailes, & that it is fish to the arteries Deins. Huse amades Duntiles warist of muscular Libres which run in various Directions. They are dilatable Hean tractable to such a Degree as entire : by to destroy thier lavity, I prep out way! Drop of Blow from them. 2: let us now consider the authories. They are formed of diffirent fubstances ware applied to each Other in it from



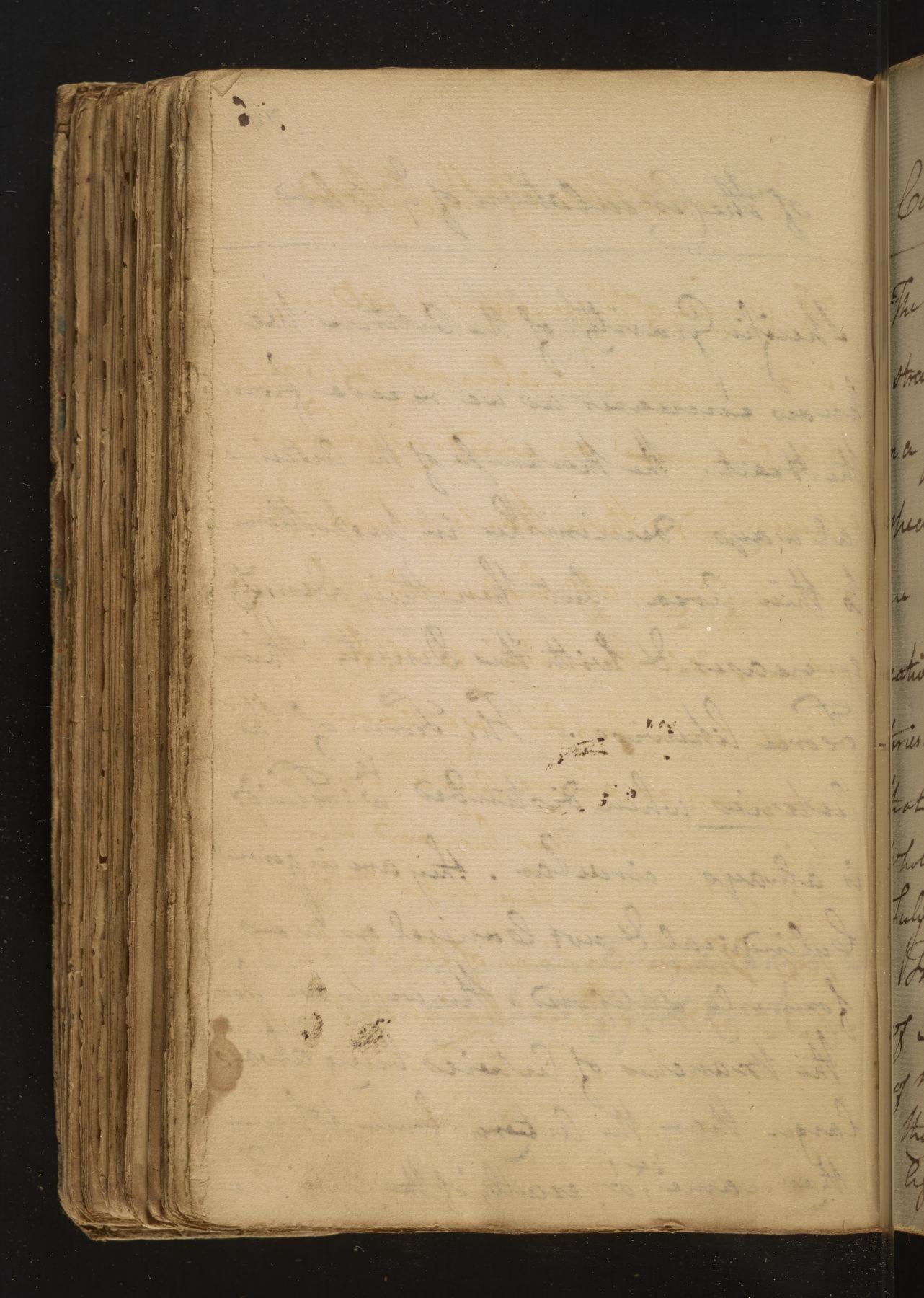
Circulation of the bolow of Layers. They consist of 3 Coats. the esternal wis of a cellular disture - the muscular wi is of so compact a hature as to remanble on tindie nous er ligamentous oat upon this len Didunter dinius its being profige - sa of Smitability but some later Apriments from this Opinion to be Jalse. With in the Unuscular Coat is another Senosthe polished Coat for an Cin: of wider anatomical Cuthor. - the Strength of the arteries is very quat wiappears from the



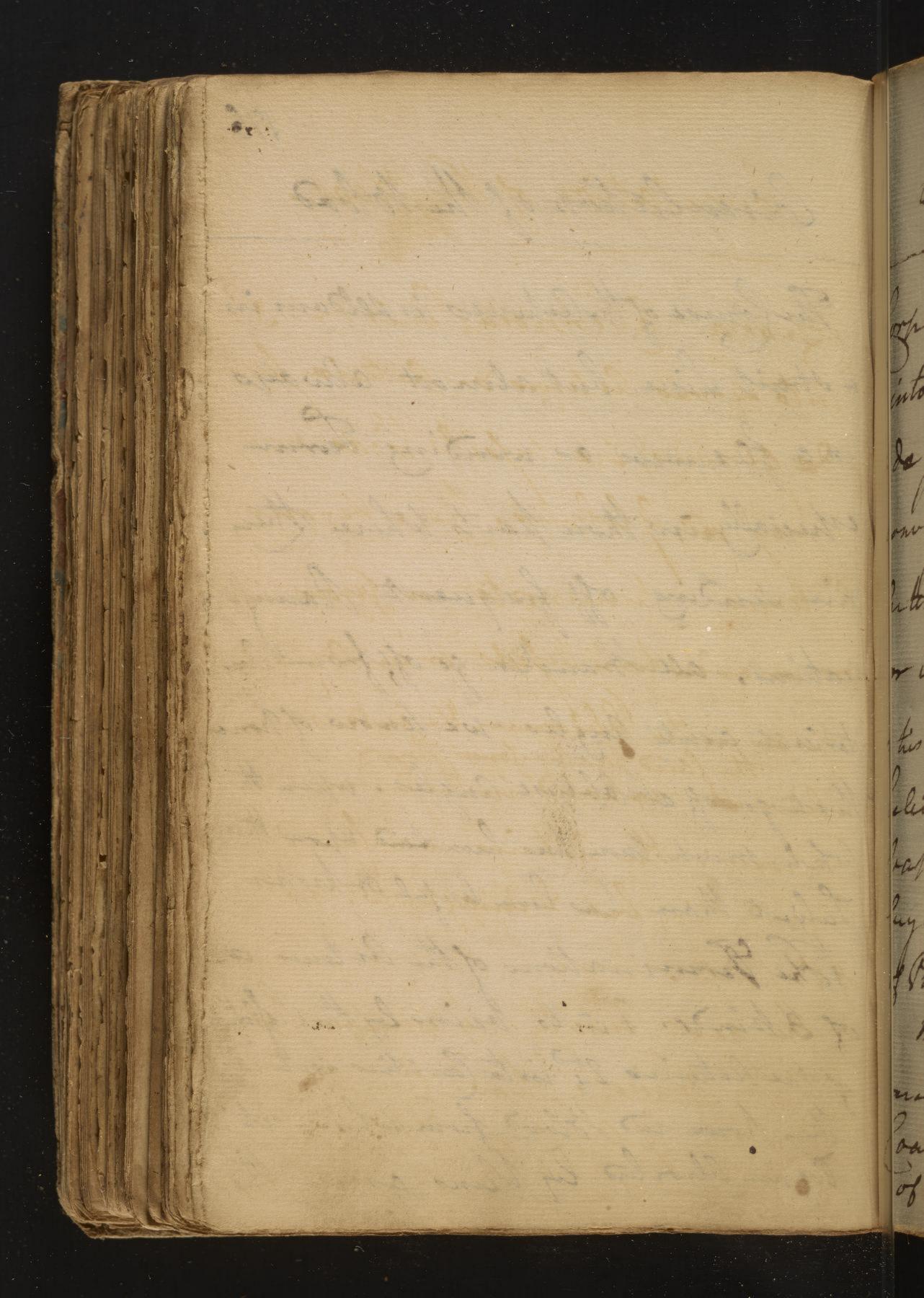
Circulation of the Blood Resistance they capable of over coming , we have but for Expuriments to show the relative From of the interies in diffirmat unes ages L'aminale. D'heinteninghum found a terme of 15% mentioning to Break The leave to of a houng man he thinks The absoluted as well as relative Foru of the arteries enereases as t you necede from the Heart, but his for their do not assentain that to the Distance from the Heart. The

fame lebth's they admit of great bariety.

of the fireulation of 5 blood Specific Gravity of the artimes the know encueres as we necede from the Heart. The thurmen of the anteries al ways Deminishes in proportion to then area, but then their Denists enceases & with this Density this Leone likewise. The Form of the autories when distunded wi Fluid is always circular. they are in general Cylindrical & not Comical as was formerly supposed. This we how from the Branches of Cutiens being always larger than the artisty from Whene they came for exactly of the same fire.



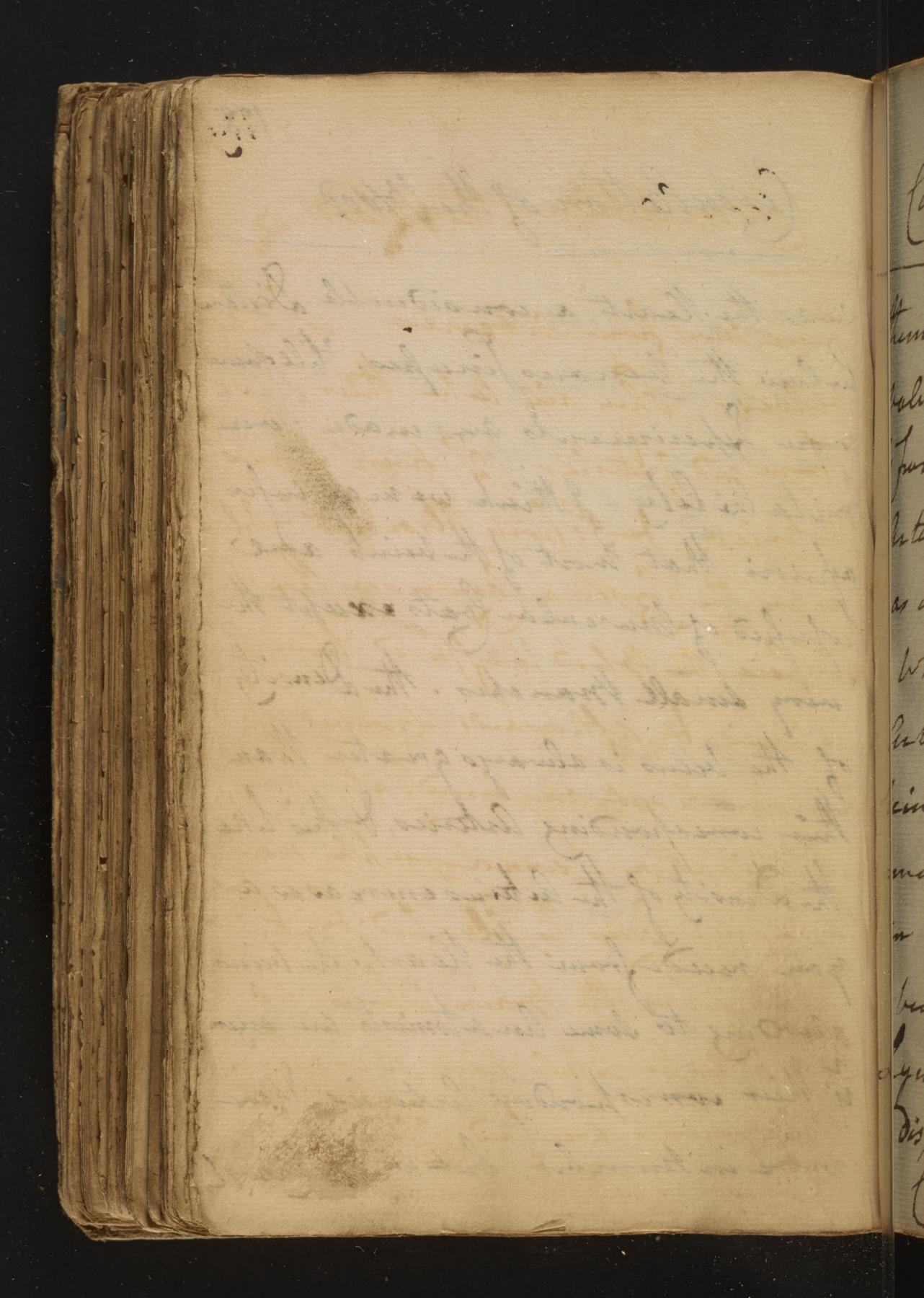
Circulation of the Blood The Course of the Returnes is seldown in a strait Line, but almost always in a flexuous or winding deorum especially in those parts where they an sinding off frequent Manifi cations. all Branches go off from an teries at acute lingles we know of home that go of at Colotuse angles, when the whole much how has been said before this Julijut than has been listful on proper. The Ferminations of the arteries one of 3 kinds. I into be in by the Olefletin of the artices 2" into Cavities into w. They from it blowd from when it is by line as in the



Circulation of the Blood. oxpora lavernosa l'enis de. 3: into derous arteries or arterio fecun. - Le generis i. e: tufocls wide not convey per Globules. These Lerons autories turnimate in Jerous Viens or in Lecretory lufuls or in Ohim his. this as in the alisomen & into w: & believe it is exhalis in the Form of Valour. the arteries have hundinde luy and this, but & imagin w: no kind to of Propriety. the next Courts y contains slow are the buiss. have they muscular oals? - I think an alwins Layer

A. W. in the transfer of the state of Lard Janes Proposition of the land lor depropried the terrice in the Constant of the Se finish in en abeque interest Su in de enterm dufield l ver Thu

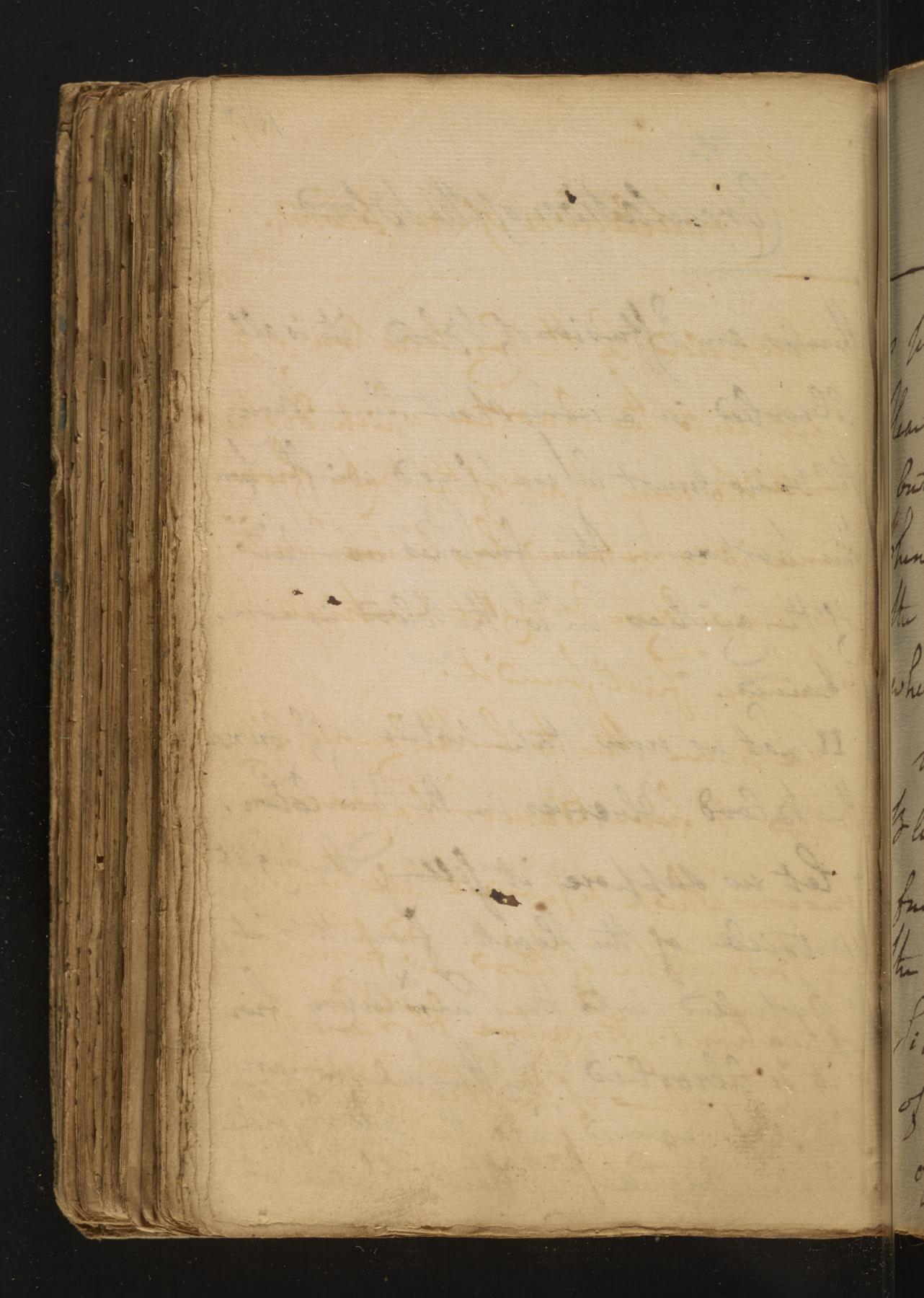
Circulation of the Blood mar the React a considerable Distance lulow the benous finupes. Hill dame mon appeniments an made on Initaliality - Ithink we may infor apriori that most of the beins and for the bound of muscular Coats except the very small Granches. The Density of the brins is always greater than Thur corresponding arteries, & this like the Density of the autiss eners as es as you recede from the Reart. The beins anding to Some an atomists are larger 4. Their corresponding arteries, Hans more in humber, but w. distinguish



Circulation of the Blood Them most from artonies is there balves. They all take their Rise Trum sed arteries 2 from Serons arteries & 3: from absorbent byfuls as in the Corplora Commosa Panis de. Where the Bolows is effused from the anteries, & afterwards letron had lygi beins with out any invidiate forme :munication. evendymph may in Same Pases be absorbed by the being as in the Brain Where no Lymphatis beful have ever been distorned. We find also in thung Casio as in Techymoris: Where

and from the allies of the second Uno and the second 14 The state of the s the state of the said 0 / The the same of th 1.4 To will you - 1 1/2 / 1/ ta fre freeze Ħ the service of 4 0

(irculation of the Blood there is an Iffusion of Blood, it is all alworked in a very short time. Sunly the beins must be employed chiefly for s This purpose. This finishes our luit: of the Cavities in w: the Blood is comes It Let us now take hotise off fourse the Blood Observes in the fireulation. - let us suppose it filling the inglit bentricle of the Heart. from this it is propelled into the Pulm: Cutery from vitir abrorbed by the ful monary hims It carried into the left-livricle



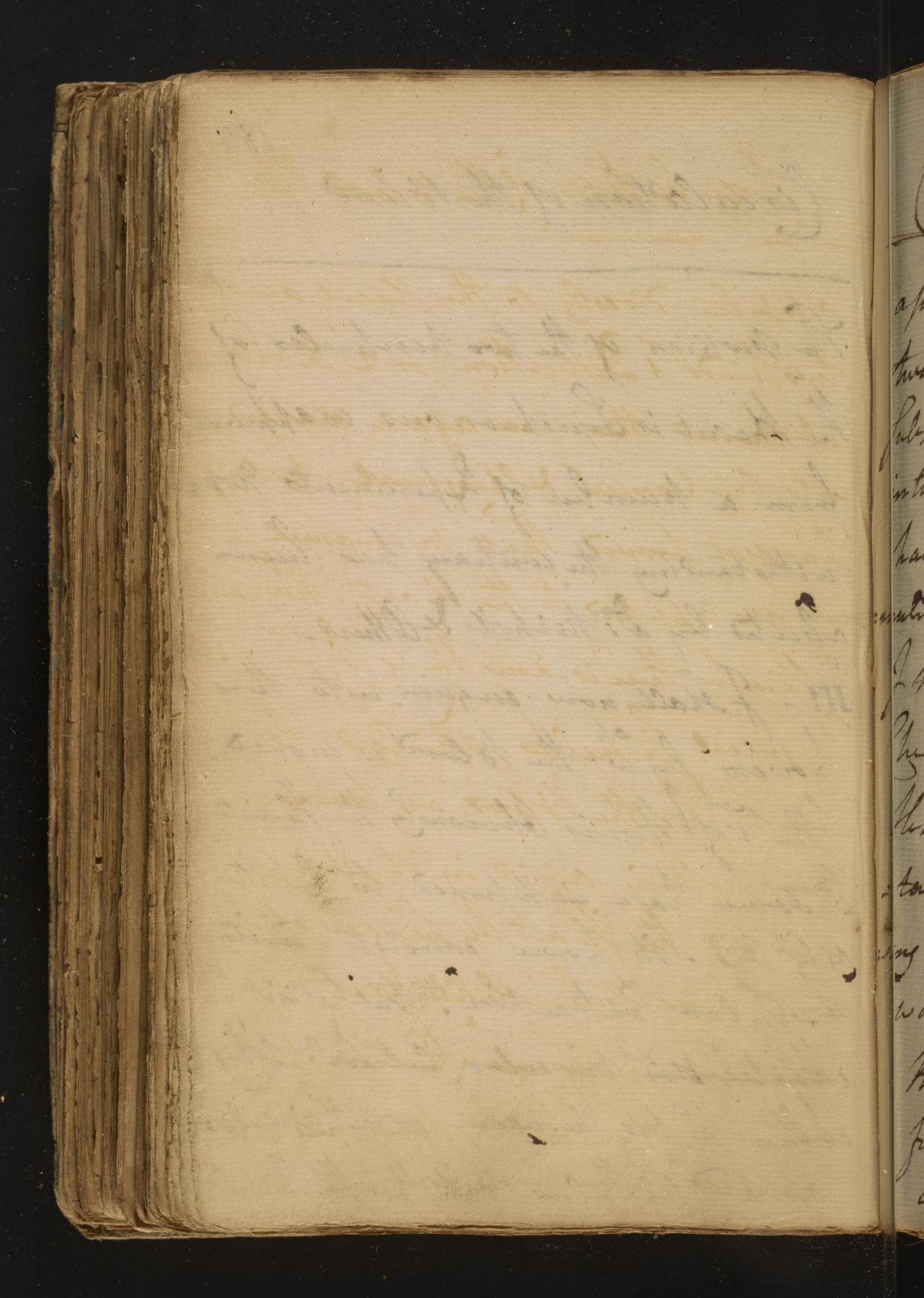
(inculation of the Blood is propelled by the Eintraction of the Heart into the Graorta which District : butes ito way part of the trady from Whene it is betuned by being into the luna Pava & right benticle where we frist foundit. be how this to be the fourse of the Howo i fram Bomorrhages or frans Insions which Deprise all houts of The Body alike of Blows, 2: from the Vituation - Structure & Functions of the balues of the Heart windmit of the Blood's papage auly in One

The state of the state of vay Jan Ma to for the chi

Circulation of the 13 low way. From Ligatures which James the being to swell below them, I when very tight come the Certines to du ele belove them. 4: from the Formative of the baleses of the biens w: admit the Blood and in Andiray. 5. from the Continuation of artimes & being being demonstrated by Injen tions & Mier or copes. You all know that This hue of the lizeulation abblies only to Bult, the Blood circulates ina Disfirent Inamum in the Gotus we shall say burelyter.

Pi, Marie Chie wi apo the vie 12 li

Circulation of the 18 lood The motion of the two busticles of The Geart is Lynchron ous as appears from a humber of Therinents hot: withstanding the withany has hem abuted by Di Micholl & Others. III - Je shall now enquire into those powers by w: the bolow is moved. - the inflation of the Meant w: dome have supposed to be the Only One. its power consists, inits Museulan fontraction. But wisit y excites this muscular lution? Why either a bis himsed or a timulius applied to the Heart itself! He Stimuli



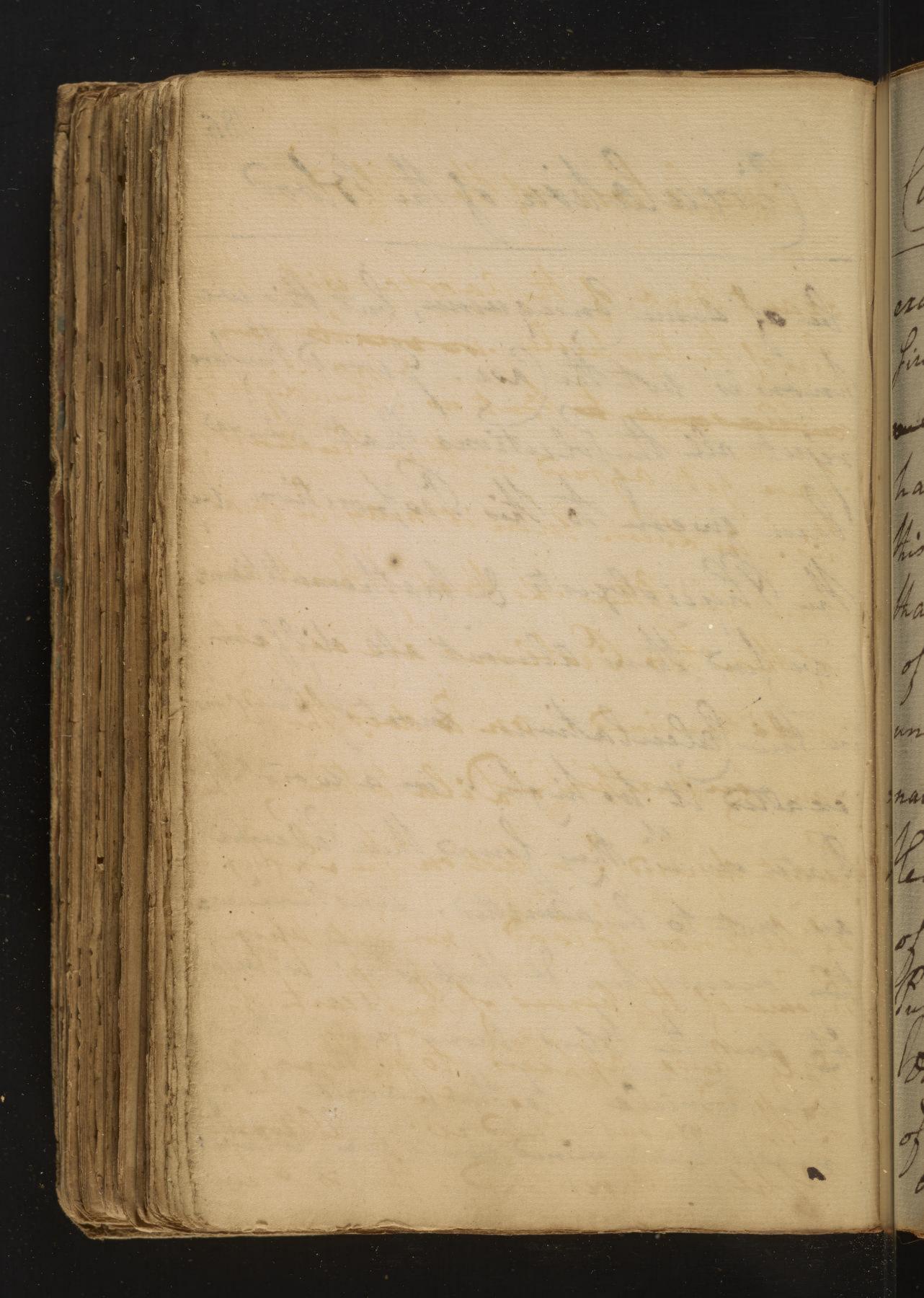
Circulation of the Blood applied directly to the Heart and two hinds I Distention or a airid Julistanus these are again divided into muhanical & Thimiscal. ho One has yet fromis that muchamical this muli are applied to the Heart, nor can-Atimh there is any thing time w Themical Phimulus applied to the Heart. for the Blood we hnow ever : toins hothing auris in it, & Suppos ung it dis the Heart by Lingth of time would love it finsibility to it. Therefore imagine that Distintion from the henous 18 lood buly acts as a Itimulus on the Heart.

he start of the time of 1 1 Typically and plant and the series Maria San and Maria Mi. 一个一个一个一个 tion W the

Timulation of the Blood There is likewise a wonsidually flag of the bis herved into the React in common w: all musiles, & whon This Suffery the Jamulus of Disterning · tion deprints. This is sufficiently proand from the Effects of Papirons which we hnow an eapable of emercasing The action of the Reart. This you hay remember gave Rise of Sur for= = jestine of the Acousts being a bolun. tary musele. What is the Forme w: w: the Heart contracts? - did the Eventation of the Blood defined alone an this, the Luestion word

· h n Lines

Pirculation of the Astood be of some Consequence, but this we know is not the Case. I would therefore right all the foliations that have them given to this Proposition by The Thy is oligists & mathematitions. - we find them almost all differ in their Eleulations. most of them have exalted it too high in a wood the Date on w: they found this Calculi an not to be admitted. anotheranes: two occurs here & that is w: w: belo. eits does the Blow more from the left duricle to the harosta? - this maght bedetermined could los telly:



Circulation of the Blood exact area of the acorter, with the fire of the ben hicle woright gins andrewa to But no Physiologists have get agreed in this humants of This. in Laure brun it may be greater than in Others. Lo that Think each of these two Problems are equally un détermined. ou à does the alter. nate gu traction Dilatation of the Heart depoint? - hot on the Inglish of anterious Blood, nor yet lepon a Tulame of the herves of the Heart. The Toly Course appears to be the Sufflux applied I removed, there is a fund

ca the auments ag. the prodig. 2 one Free of these of Resistances sna, upon the Jame Julijant.

Circulation of the Blood How ture of the muscles of the Heart. widishous tit to alternate forme traction Dilation. by the Heart The Resistances to be oversome are , Hashirty of the actions 2 the Prefoure of the attenorphere & Lumbets of the Blood to be moved. I Inlayment of the arteries asthy moud from the Basit. 5: Flesmes Hangles of Flatenis. 6 i the Effects of anastamosis. 1 as 7. the Frishwood the bolows whom the lin : this is supposed to be the most Considerable Resistance . but the Resistance of Resistance anising from the actions His his me its

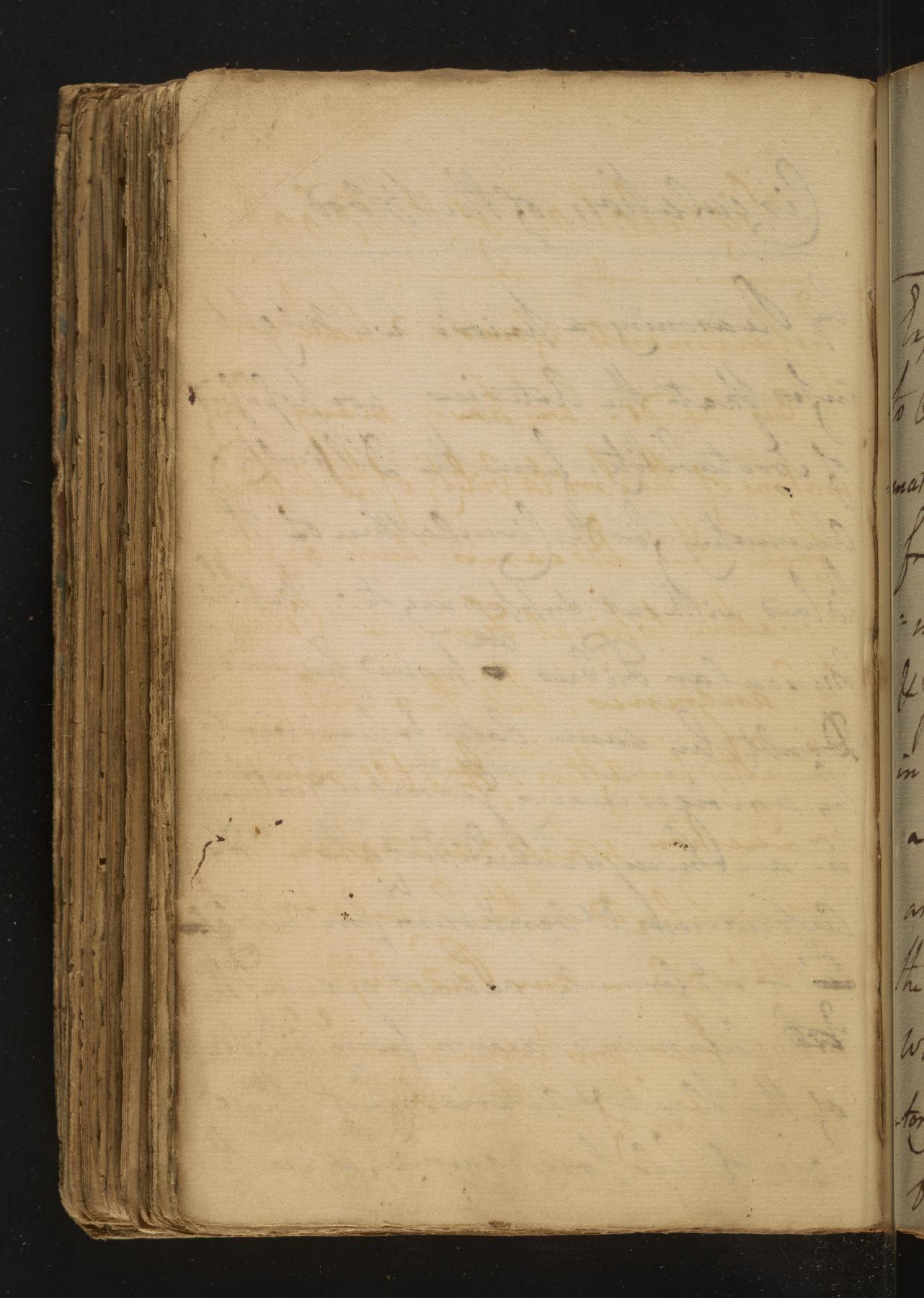
Circulation of the Blood Fluids on folids is do inconsiderable as hot to deserve mentioning. 8: for the bissidity of the bolow ? but This has been unjustly accused. all biscivity is aboveated by the Heat of 4 Hory. - the component parts of the Blood are in a diffused state, Lupon Atis its furnament Fluidits depends . The have Jenumerated ale the Resistances the Heart has to overcome. but they are by no means so great as has been supposed, nor can they be duly en= to to any negular Calculation. Huy do However retaid & resist the letter

(a) Such as De hickorder - Dollunter Le Didallen.

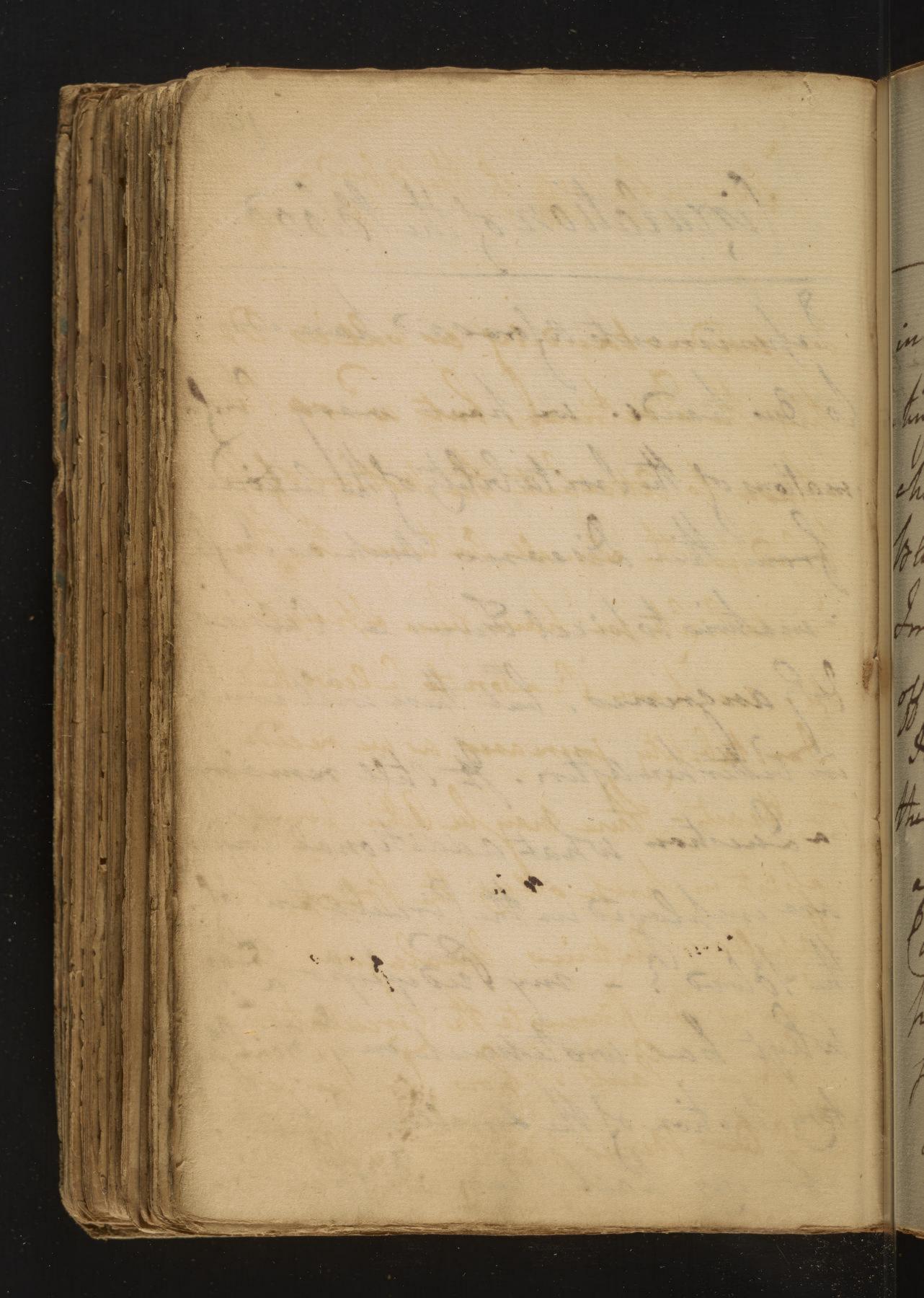
Circulation of the Blood. of the Seart & little, & that to such a Deque that I think we must call in some Other power to au : for the Ferre Helorits of the Blood lusides the autom of the deart this power then is the betien of the lectures. Thy oiologists have Objected to this because they have but hein able to Viscouen muscular Libous in the Forteries, but later Observations have thoughtun to us the in a more compact & apparently Partilying nous state in all the ateries. I think

(a) mi bassheur en a stadi in This timiversity. - 1

Circulation of the Blood by Reasoning a priori we might inger that the asteries are popular of Aritability, from the Difficulty of accounting for the fireulathin of The To love with out Supporing it. But their Museular Libres in proved beyourd "Doubt by Same late & hisiments ly aningermon Simman Gentliman in an Unaujural Difurtation " Di auteriarush & benevrum omitubilet : I - . I formuly adduced many Other The auguments drawn from y Discuss of the Mant & anteries, but these are of les fourequeme, since the



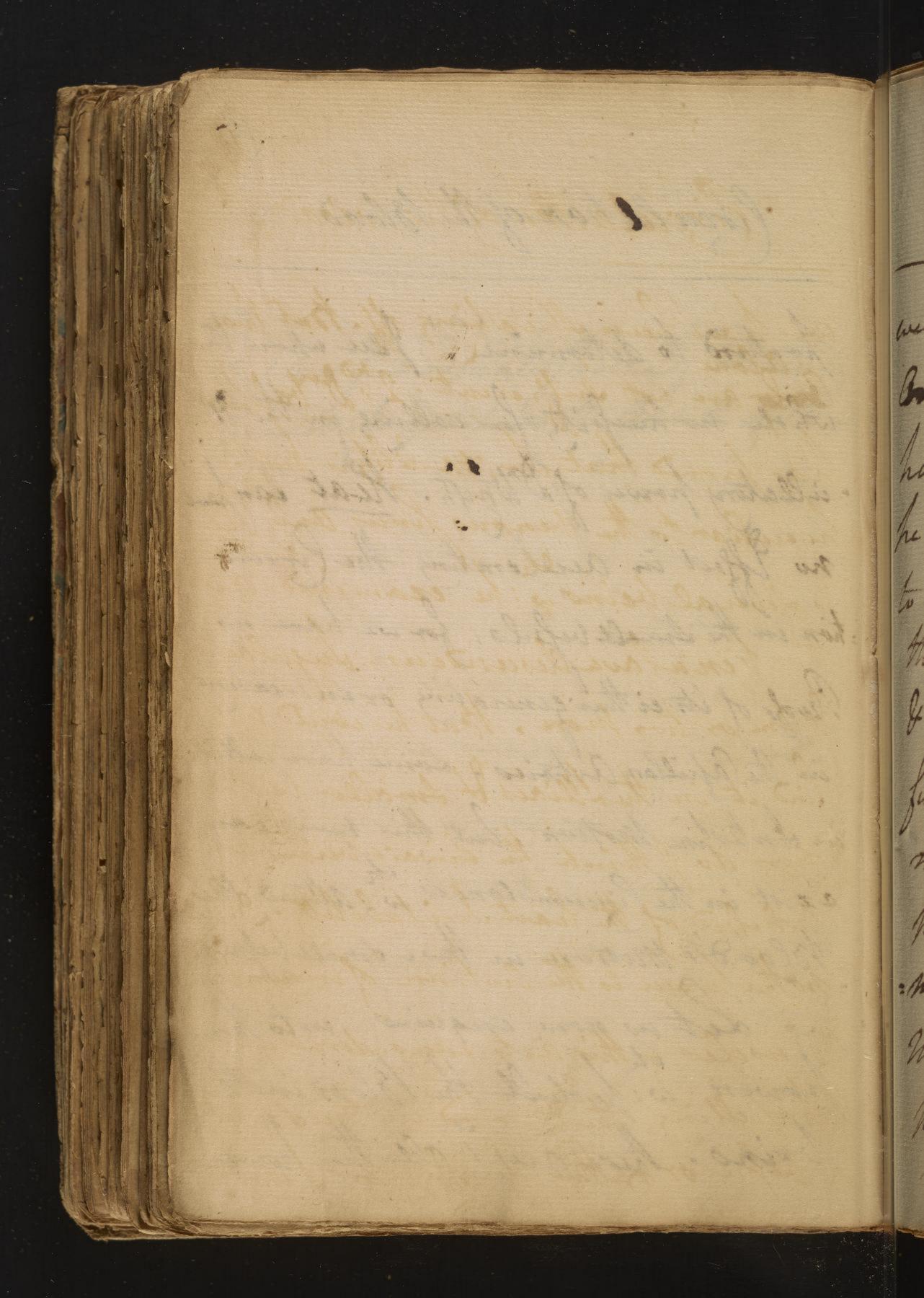
Circulation of the Blood Taperiments afores aid have come to Bus hands. we have many foresting mations of the Imitability of the Cutions from this Diseases Such as Influ - mations topical Fewers - Palsies It angrenes, but these will come in better here aften. It still remains a Luestion what additional howers are employed in the Pirculation of the Blows? - my Property Whyt has wrotehunch on y Breille. tory motion of the Smaller letuies. for my fact have Difficulties



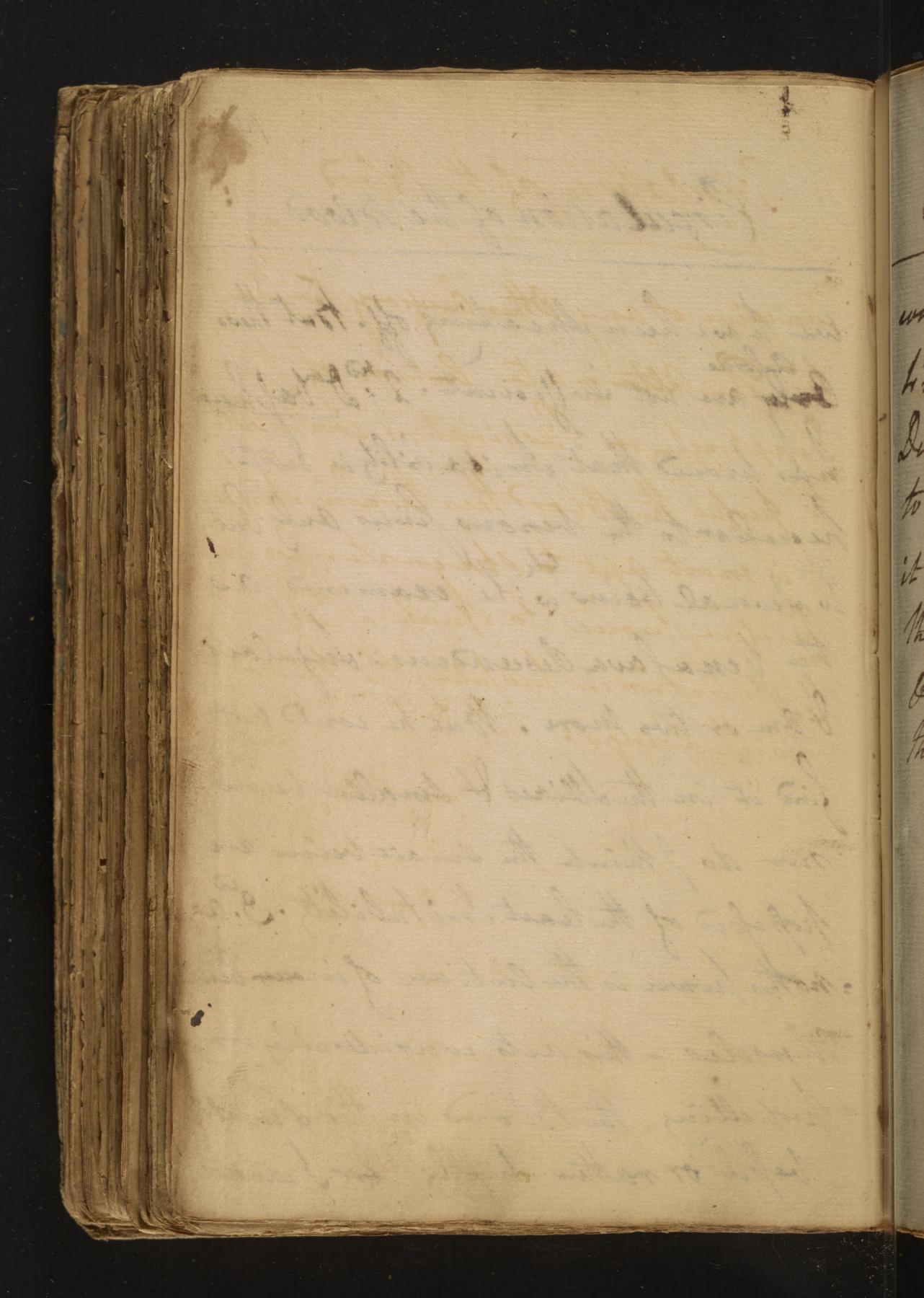
Coirculation of the 13 bod. in understanding as well as Dmit. ting this Doctrinet, but we rather Thuse to attribute the motion of the To lood in the Small arteries to the Initability we have been Speaking off. we have Reason to believe that this Amitability increases as we needs from the Heart. There may be the powers w: apist in husholling the Volood throy! apillary anteries analogous to thou powers w. promote the Circulation of fap in Plants, how for the Other of Dur Menus may act faill not

一个一个一个一个一个 (a I we find repeated shows of Electricity In promotes be quichens the Growth of Plants. Wh After the who she the think the the talk we have the short office have the whole to the letter the Anitability menasses in his meets for The theort - There had the I had here a

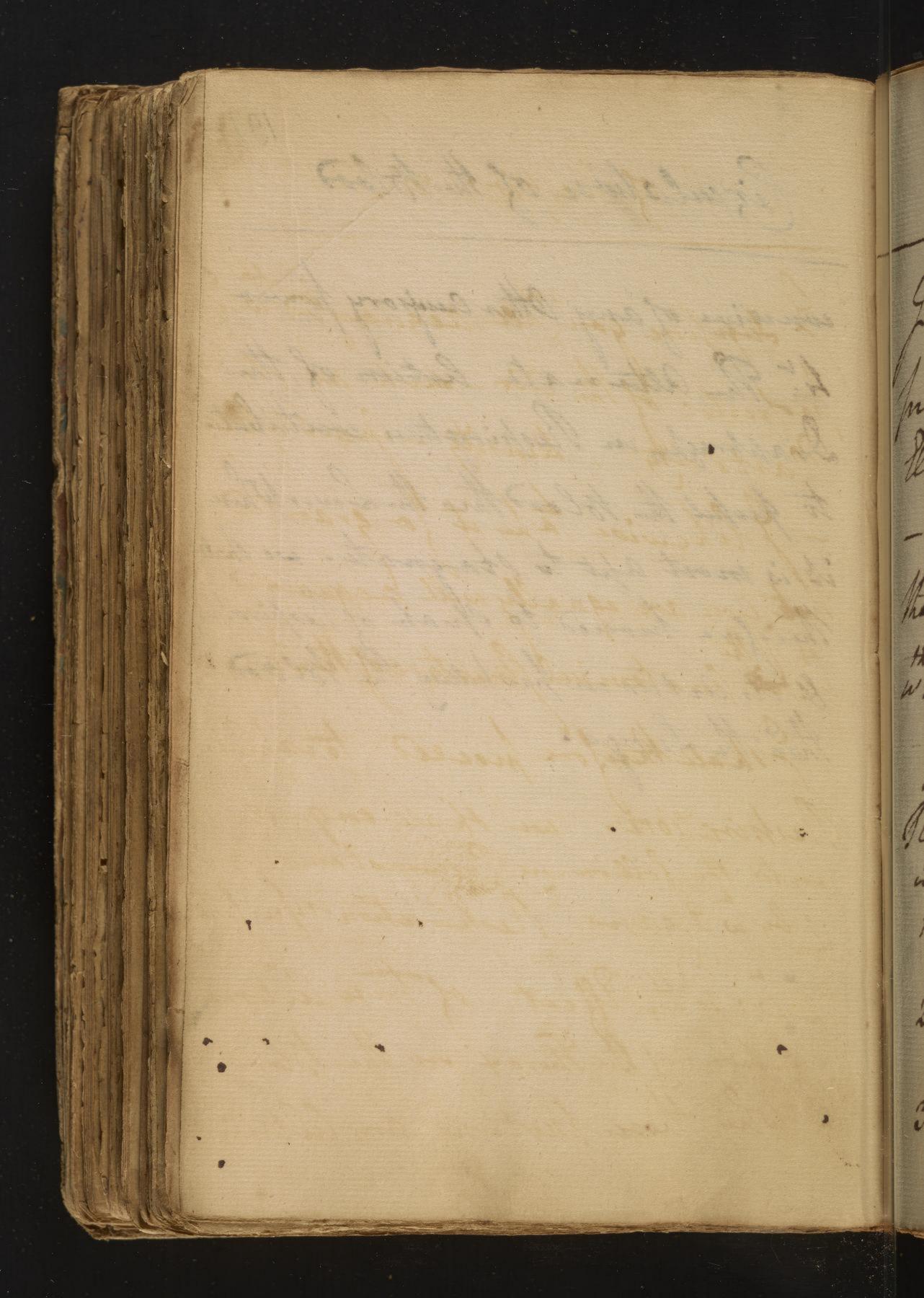
Virculation of the Blood protond to determine. I see whom the whole no heepity for calling in the 4: " illatory power of D'Whyt. Heat ean have no Effect in accelerating the Circula. : tion in the Small befels, for we have no Twofs of its either generating or encreasing in the Capillary artisies. Some have called in Intestine Motion, but this have can exist in the fireumstances w. attend the Blood motion in these dmale befols. - Let us now enquire into those power withofull the Blood in the bains. These are I all the powers



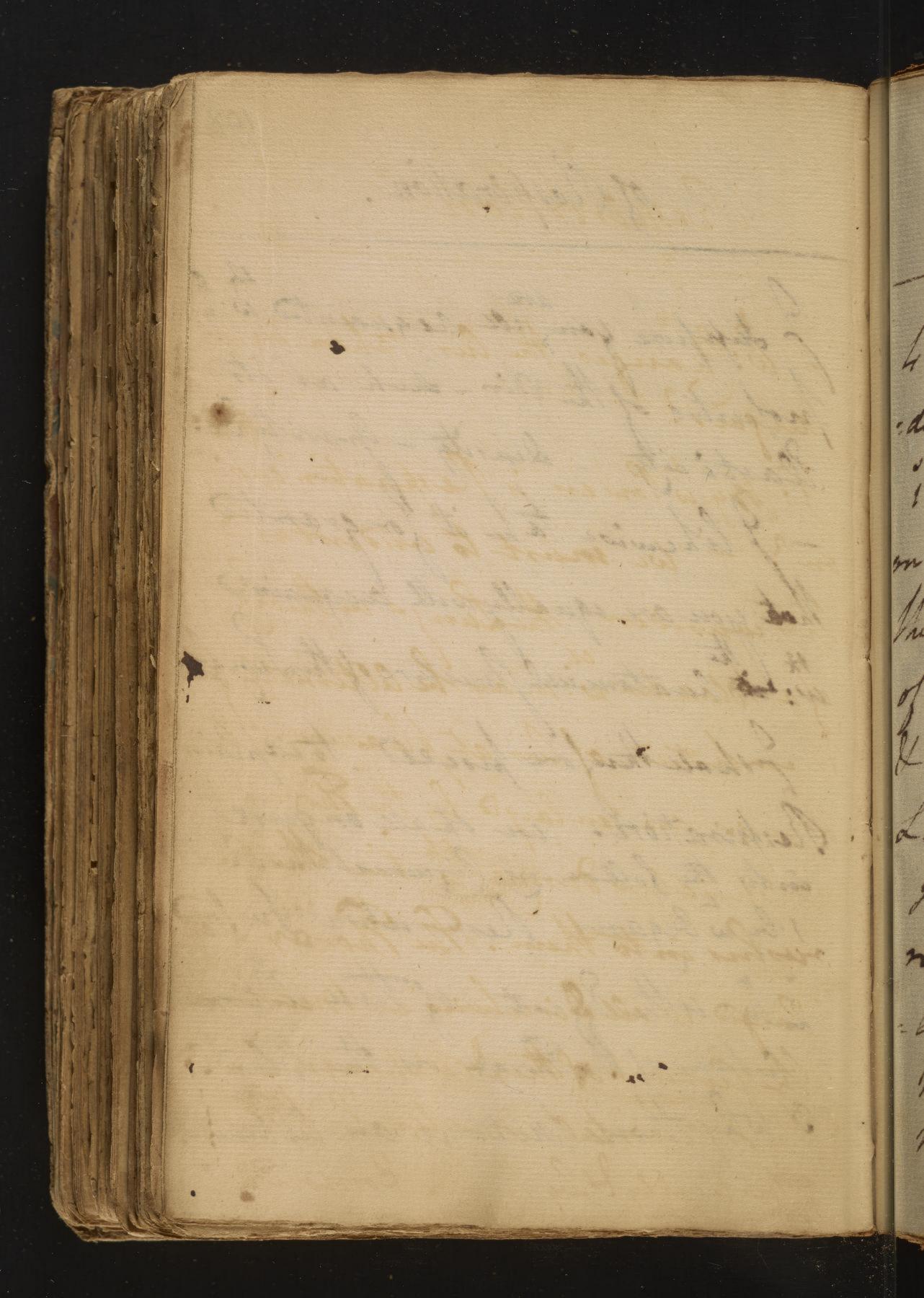
Circulation of the bolood Bolone not Sufficient. 2: De Vafrhun has proved that writability is hot peculiar to the benous finous and but, to Leveral beins wi he examined as The benafava descendens - Sugulars I am or two more. But he could not find it in the Illians & Smaller beins. nor do think the senall beins are populated the least Initability. 3. a. : nother from is the Cutium of incumbent muscles - this acts eversiderably in propelling the Blowd in the Small befuls or rather chiefly, for Jeannot



Eisenlation of the Ablood evenuer of any Other augrory power 4: The alternate lection of the Diaphraghm in Respiration contributes to quopel the bolow thro the Liver Where it is most aft to stagnate. we shall Therefore proceed to Speak of Respiration It its action in propelling the Blood thro the Lungo.

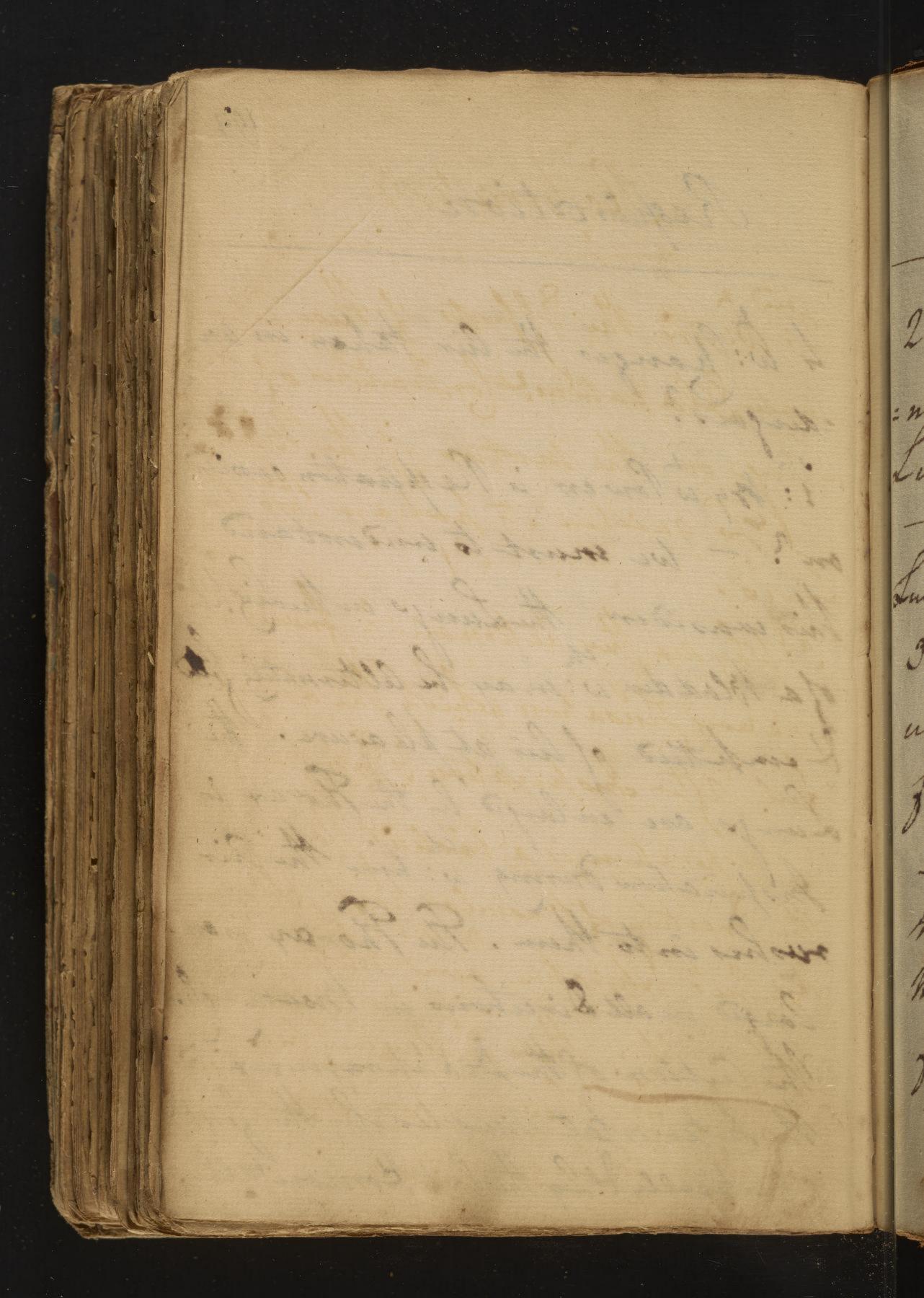


of Respiration. L'appere you all acquainted wig: mohertus of the air - Such as its Planticity - Dunity - Gravity &c. - I likewise take it for granted that you are equally will be equainted w: La automical Structure of the Jungs I shall therefore proceed to explain Respiration. we that enquire into the following Circumstances. 1. by w Organs Respiration is Jurson 2 w: is the Effect of These alternation actions of the Thorax on the Blood? 3 Why these Instions are alternal?

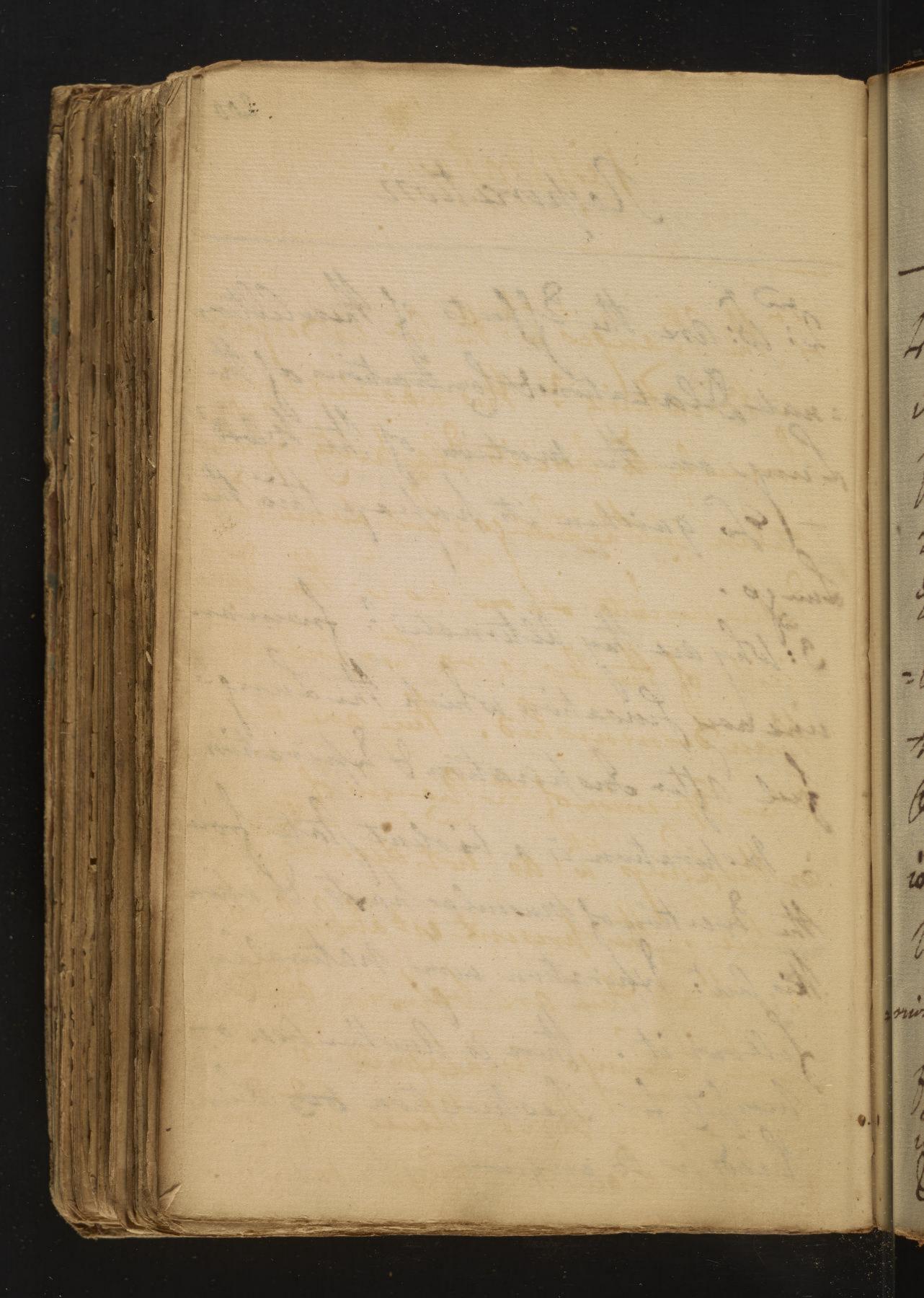


Respiration 4 W: Changes the air taken in len.

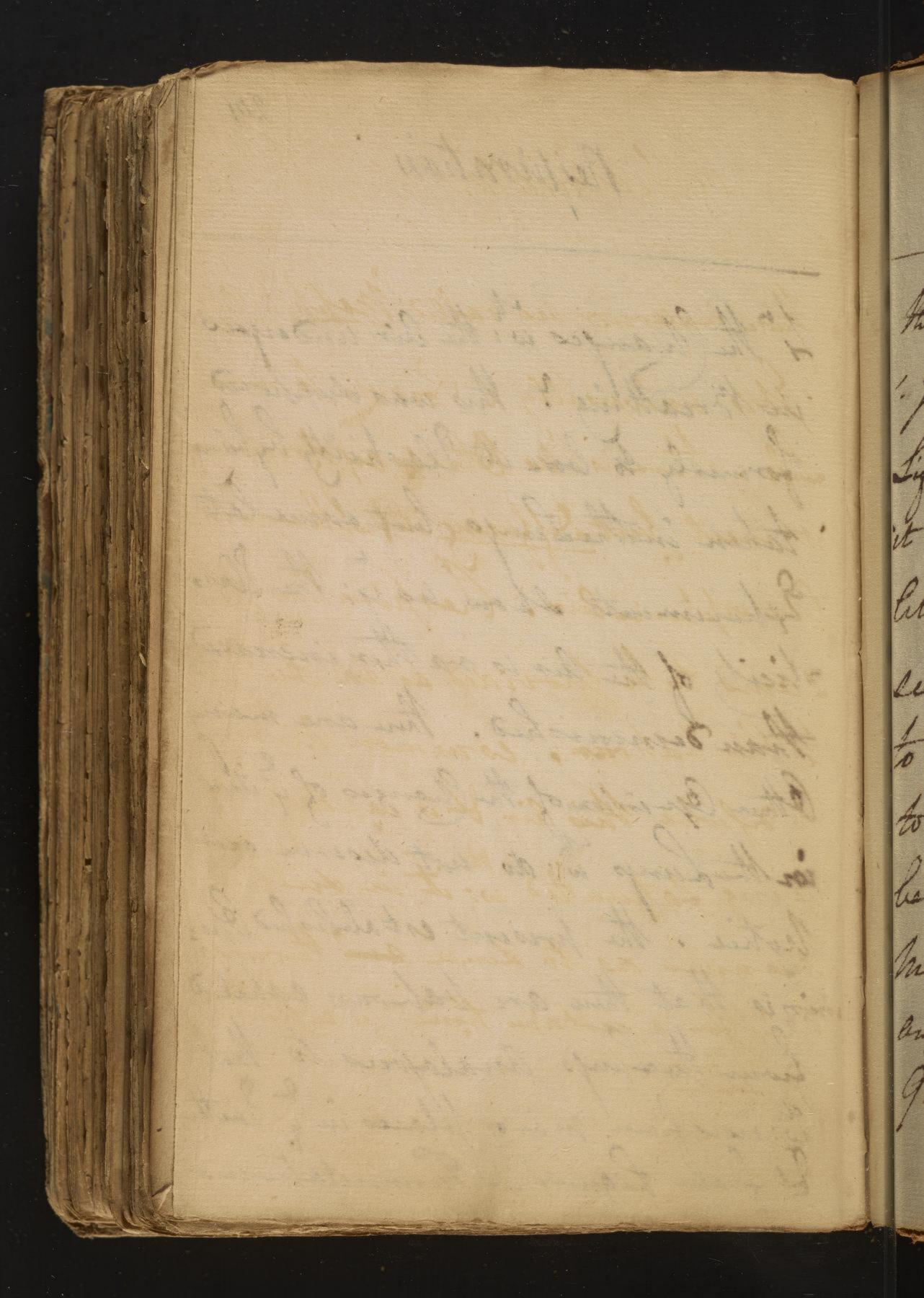
dugais? 1: My w Pow en i Respiration camied on? - be must to understand This wasider the Lungs in the dight of a Bladder w: may be alternately to Humptied of his at pleasure. The Lungs are enlayed by the Thorax in Inspiration during within the air rushes into them. The Thorax is on: · Cargo in all Directions in Mastingly The action of the Diaphrague and The onterior tal Muscles by the first bestically, It by the last Borison tally.



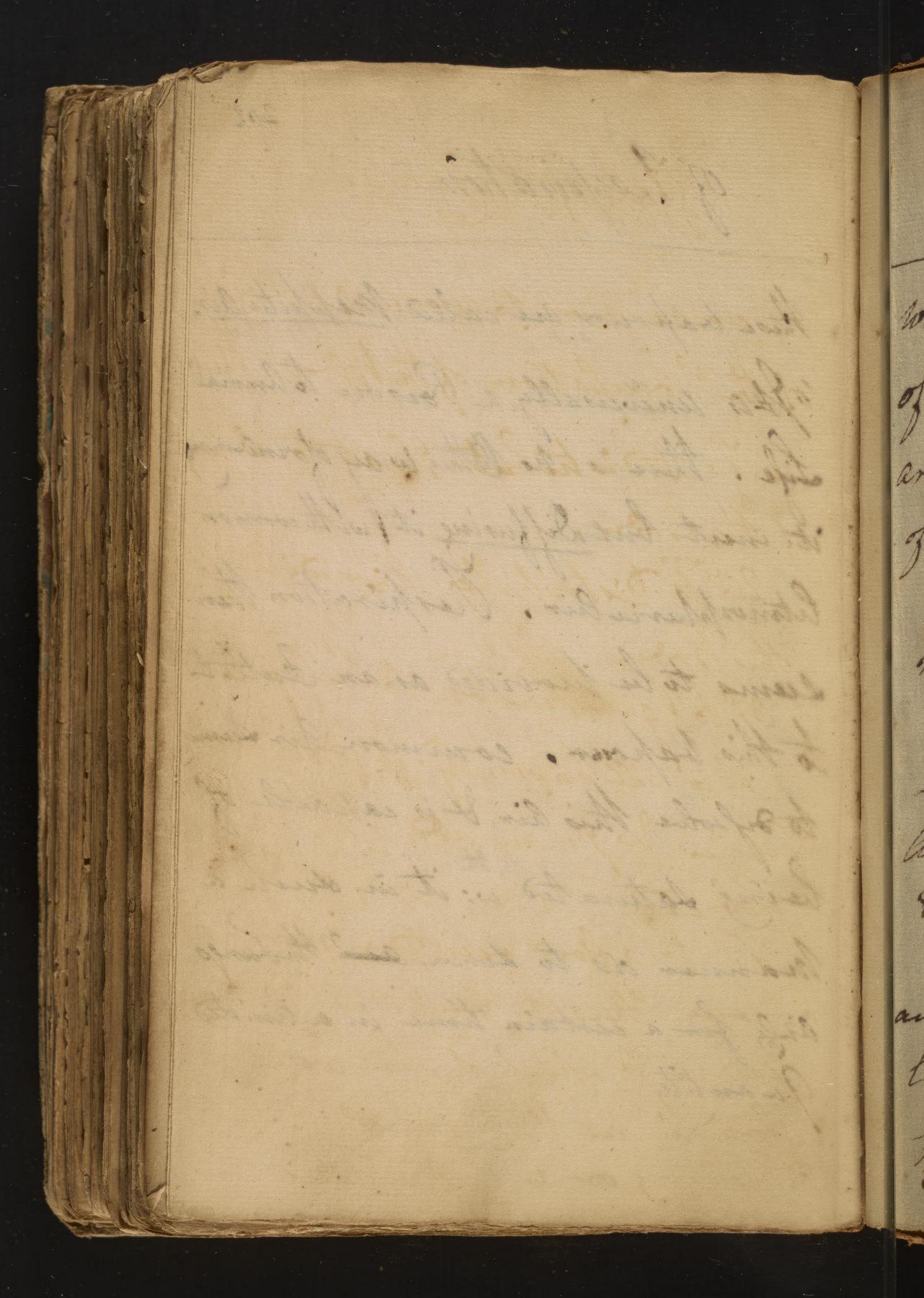
Meshination 2: W: are the Effects of theor alter: : nativalela tations before troutions of the Lung on the motion of the Blood? -166 quicken its papiage this the 3: Why are they alternated: from an une boy finos tion which the Lungs Jul after Inspiration & Thirstien. - Inspiration is a bisolint state from the Exertion of brusenlar parts, & upon This Que: Thirathon very haturally follows it. There is another lise on morpilis for Respiration bis which Leads his to conquire in to



Respiration I'the Changes w: the air undergoes in Breathing? This was duphored formerly to loose its Elasticity by being to taken intothe Lungo, but some late Theriments show hoy: The Wess - licity of the air is rather increased. Than Suminished. There are many? Other Cyrinions of the Changes of y ain in the Lump w: do not deserve our notice. The present established This min is that there are bahours exhalists from the Lungo analajous to that Wirise fram many places in y laith no frame tation.



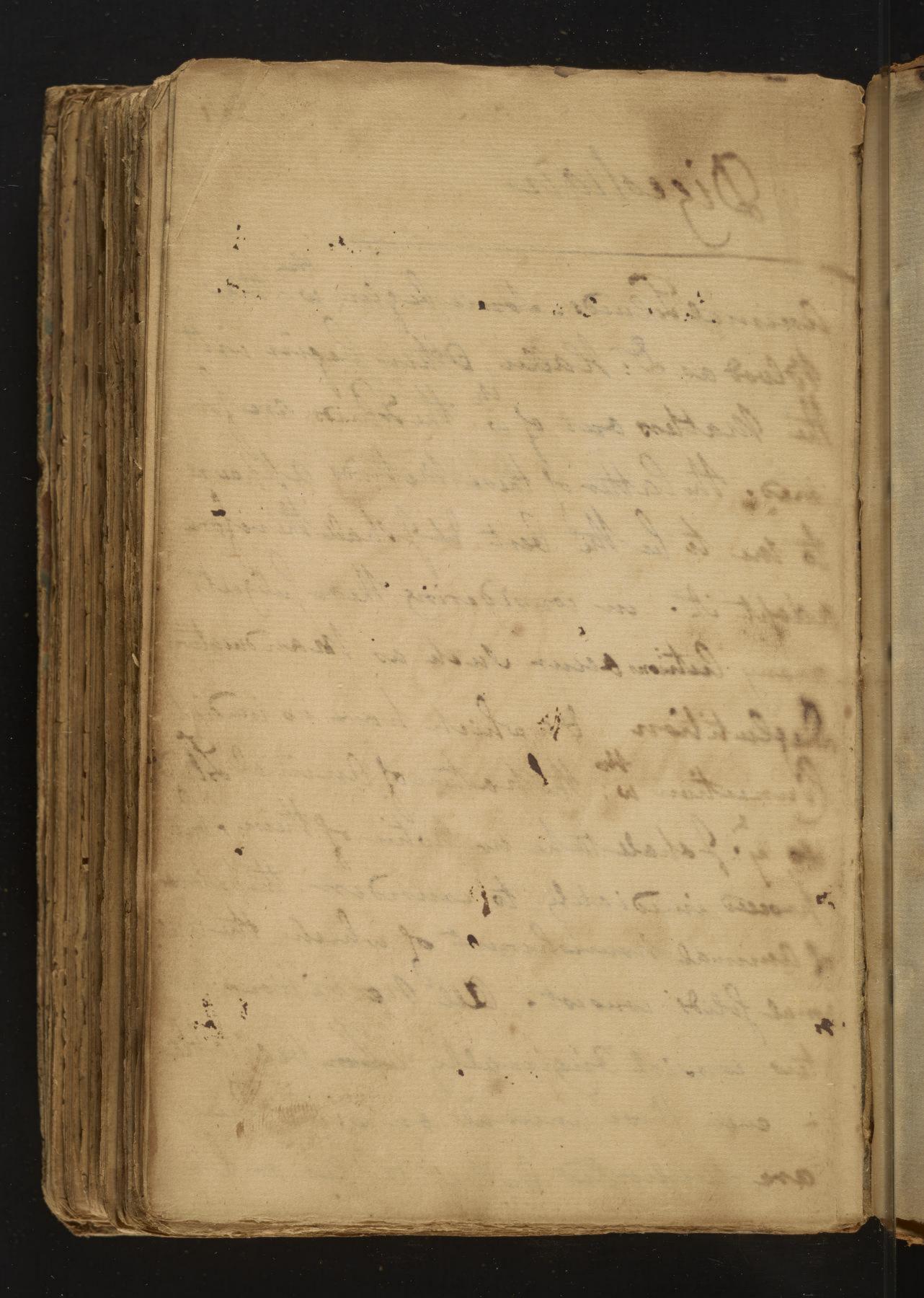
202 of Respiration These bapours are called Mephitis air. His Universally a Poison to animal Life. There is no Other way of renderingto it inest but Diffusing it twith wommon Etmorpheric air. Mespiration then Leems to be brovided as an Buttet. to this bahour, common hir humo; to Defeature this air, It is eathable of being Saturated with in duch a manner as to denne and the Lungo and for a certain time in a himited quantity.



Heats of the Circulation we come now to speak of the Wests of the irculation of the Voloro . there are 1. to distribute Heat to de part of the Body. 2 nd bistribute Rumidity to 3:26 faire Gension to the fistern. it is well knowny; it statitus y: arteries, & Jemay all every musular Fibretoo. 4: to afford devicted Liquors, and among Others the Mutitions Juice. this leads to to speak of what we proposed Lystim, or to the Doctronic of

West of the same in of the streetister 松地 本人方法 当られる und 6 di 122-6 1968 De Olan Non-Andreas ! 40

Digestion animal Leluids. Lorne begin wither Blood as Di Haller, Others begin with the matters out of w: The Fraiss are for= . med. the latter of these Methods appears to me to be the best, & I shall therefore adopt it. in considering these Subjects many actions occur Such as Manducation Deglutition &c which have no imdiate Connection w: the hature of animal Iluda so y: I shall take no hotic of them, but proceed imediately to countre thehaters of animal hourishment of which the ani. mal folids consist. All nochti tions mal. tus was ist anginally when begitables. even these animals on wiwe live, are dulihorted by begitterbles, or by



metrition. 10:15 Tension on wit Depends 17 Pathology of the simple Solids.

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